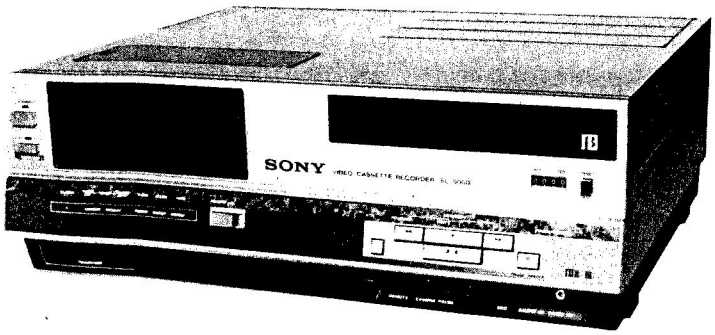
SL-5000

SERVICE MANUAL

Type 1 Model
Type 2 Model
Type 3 Model



Refer to "NOTE ON OPERATING POWER VOLTAGE AND FREQUENCY" on page 1-1.

BETA III/II RECORD
BETA III/II/I PLAYBACK

710 SYSTEM

November, 1981

The adjustment procedures and the circuit descriptions are not contained in this manual. Refer to the separate-volume "ADJUSTMENT MANUAL" and "OPERATION MANUAL".

SPECIFICATIONS

System

Video recording system	Rotary two-head helical scanning
Video signal	EIA standards, NTSC color
Channel coverage	VHF channels 2 - 13 UHF channels 14 - 83
VHF output signal	Channel 3 or 4 (selectable) 75 ohms, unbalanced
Antenna	75-ohm external antenna terminal for VHF 300-ohm external antenna terminals for UHF

Video

Input	VIDEO IN : phono-type connector 1.0 V (p-p), 75 ohms, unbalanced, sync negative
Output	VIDEO OUT : phono-type connector 1.0 V (p-p), 75 ohms, unbalanced, sync negative
Signal-to-noise ratio	Better than 45 dB

Audio

Input	AUDIO IN : mini jack 100 k ohms, −10 dBs (0 dBs = 0.775 V rms) MIC : mini jack −60 dBs, suitable for microphone with 600-ohm impedance
Output	AUDIO OUT : mini jack Less than 10 k ohms, −5 dBs (100 k ohms load), unbalanced
Frequency response	Ⓑ II : 50 - 10,000 Hz Ⓑ III : 50 - 7,000 Hz
Signal-to-noise ratio	Better than 40 dB

Tape transport

Tape speed	Ⓑ I : 4.0 cm/sec. (playback only) Ⓑ II : 2.0 cm/sec. Ⓑ III : 1.33 cm/sec.
Maximum recording time	Ⓑ II : 3 hours 20 min. Ⓑ III : 5 hours (with Sony L-830 cassette)
Fast forward time	Under 4 min. (L-500)
Rewind time	Under 4 min. (L-500)

General

Power requirements	120 V ac ±10%, 60 Hz ±0.5%
Power consumption	48 W
Timer	Used only for recording Electronic digital timer 24-hour cycle, synchronized with the power line frequency
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	−20°C to +65°C (−4°F to +149°F)
Dimensions	Approx. 460 × 168 × 380 mm (w/h/d) (18 1/8 × 6 5/8 × 15 inches) incl. projecting parts and controls
Weight	Approx. 13.8 kg (30 lb 7 oz)

Accessories supplied

Betamax video cassette tape (1)
EAC-24 external antenna connector (75-ohm to 300-ohm matching transformer) (1)
EAC-25 external antenna connector (300-ohm to 75-ohm matching transformer) (1)
75-ohm coaxial cable with F-type connectors 2 m long (6 feet) (1)
300-ohm twin lead 2 m long (6 feet) (1)
Remote control unit (1)
Channel indicating segments (1 set)

Optional accessories

Betamax video cassette tape L-250, L-500, L-750, L-830, etc.
Video head cleaning cassette L-25CL
Color video camera HVC-2000, HVC-2200 (available in the U.S.A. and Canada)
HVC-2000E (available in other countries)
AC adaptor for the camera HVA-200 (available in the U.S.A. and Canada)
HVA-200E (available in other countries)

Design and specifications subject to change without notice.

Beta
Ⓑ VIDEOCASSETTE RECORDER
SONY®

MICROFILM

Consumer VIDEO

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SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION AU COMPOSANT AYANT RAPPORT A LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

SECTION 1
GENERAL

1-1. GENERAL

- Operate on 120 volt, 60 Hz AC. DO NOT ATTEMPT TO OPERATE YOUR VCR ON HIGHER VOLTAGES, 50 CYCLES OR DC. The power cord has a polarized plug with one regular blade and one wide blade. It will fit into the standard electrical outlet ONLY ONE WAY. If the blades will not enter your outlet, try reversing the plug. If it will not enter either way, your outlet is non-standard. A new outlet should be installed by a qualified electrician. DO NOT DEFEAT THE SAFETY PURPOSE OF THE POLARIZED PLUG.
- Keep the recorder and video cassette away from strong magnetic fields.
- After playing a video cassette, remove it from the recorder. DO NOT move the recorder with a cassette in the compartment.
- If a cassette has been subjected to cold temperature, allow it to warm to room temperature before recording or playback.
- To disconnect the cord, pull out by the plug. Never pull on the cord.
- Operate the recorder only on a level, horizontal surface. DO DO NOT install the recorder on an inclined surface.
- On the top and bottom of this VCR are slots which permit air flow. DO NOT ENCLOSE THE CABINET OR OTHERWISE OBSTRUCT VENTILATION AT THE TOP OR BOTTOM.
- DO NOT install the recorder in a location near heat sources, or in a place subject to direct sunlight, dust, mechanical vibration, shock, or dampness. Moisture may cause damage to tape and recorder heads.
- When you are going away on vacation, or don't plan to use the recorder and TV, unplug them from the wall outlet to protect against possible damage from lightning or power system surges. If connected to an outdoor antenna, disconnect the lead-in from the back of the unit.
- Should any liquid spill into, or solid object fall onto the cabinet, unplug the recorder and have it checked by a distributor-approved SONY Service Center before attempting to operate it.
- To clean the cabinet panels and controls, use a dry or slightly damp soft cloth. If a damp cloth is used, moisten it with a MILD detergent. DO NOT use solvents, such as alcohol or benzine which may damage the finish.
- Save the shipping carton and packing material. They will come in handy if you ever have to ship your recorder. For maximum protection, re-pack the recorder as it was originally shipped from the factory.

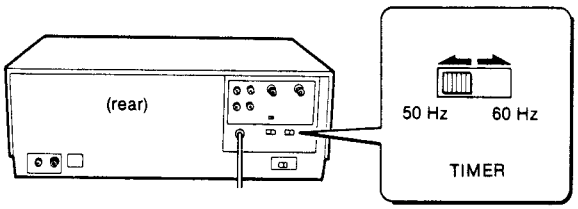
NOTE ON OPERATING POWER VOLTAGE AND FREQUENCY

The SL-5000 video cassette recorder comes in three models to suit the local operating power voltage and frequency.

Type 1 : Model available in the U.S.A., Canada, Central and South America (except the Chile), etc.
This unit operates on 120 V ac, 60 Hz.

Type 2 : PX model
This unit operates on 120 V ac, 50/60 Hz. Before connecting the unit to the power source, set the TIMER switch at the rear to the appropriate position, as indicated below.

Type 3 : Model available in other countries.
This unit operates on 220 V ac, 50/60 Hz. Before connecting the unit to the power source, set the TIMER switch at the rear to the appropriate position.

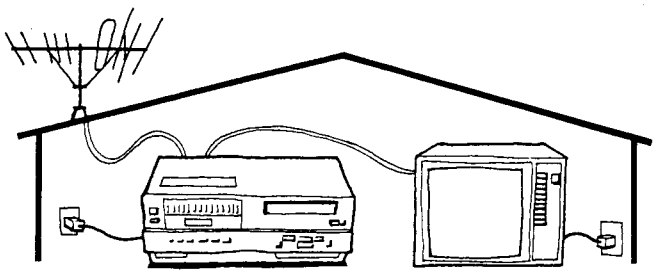


CAUTION FOR THE CUSTOMER WHO HAS THE MODEL OF TYPE 1 OR TYPE 2 :
TO PREVENT ELECTRIC SHOCK, DO NOT USE THE POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

1-2. CONNECTIONS

1-2-1. Antenna Connections

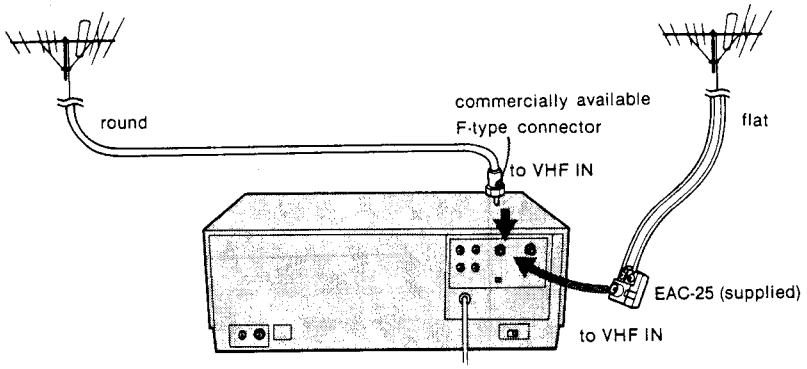
Disconnect the TV antenna cables from the TV receiver and connect them to the recorder.



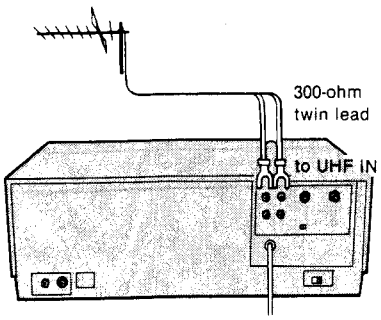
VHF antenna

If the cable is a round 75-ohm coaxial cable

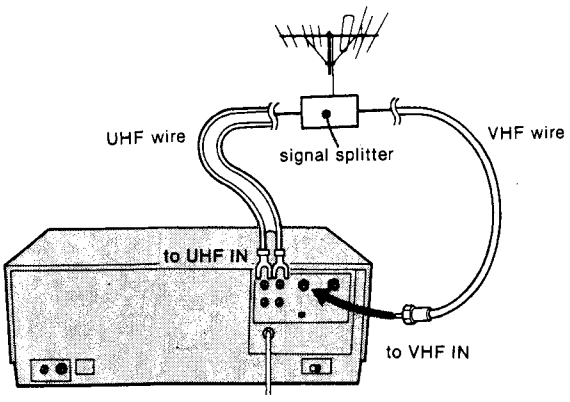
If the cable is a flat 300-ohm twin lead



UHF antenna

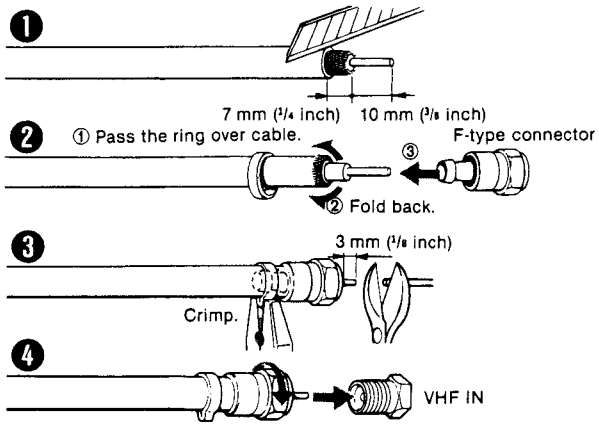


Combination VHF/UHF antenna

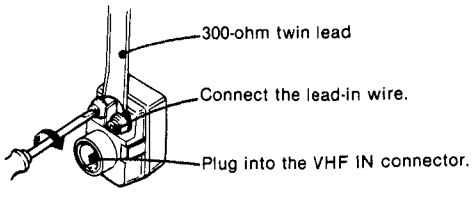


Most combination antennas are equipped with a signal splitter. If you need a splitter or a complete antenna system, see your Sony dealer or a qualified technician.

How to attach an F-type connector



How to attach an EAC-25 external antenna connector

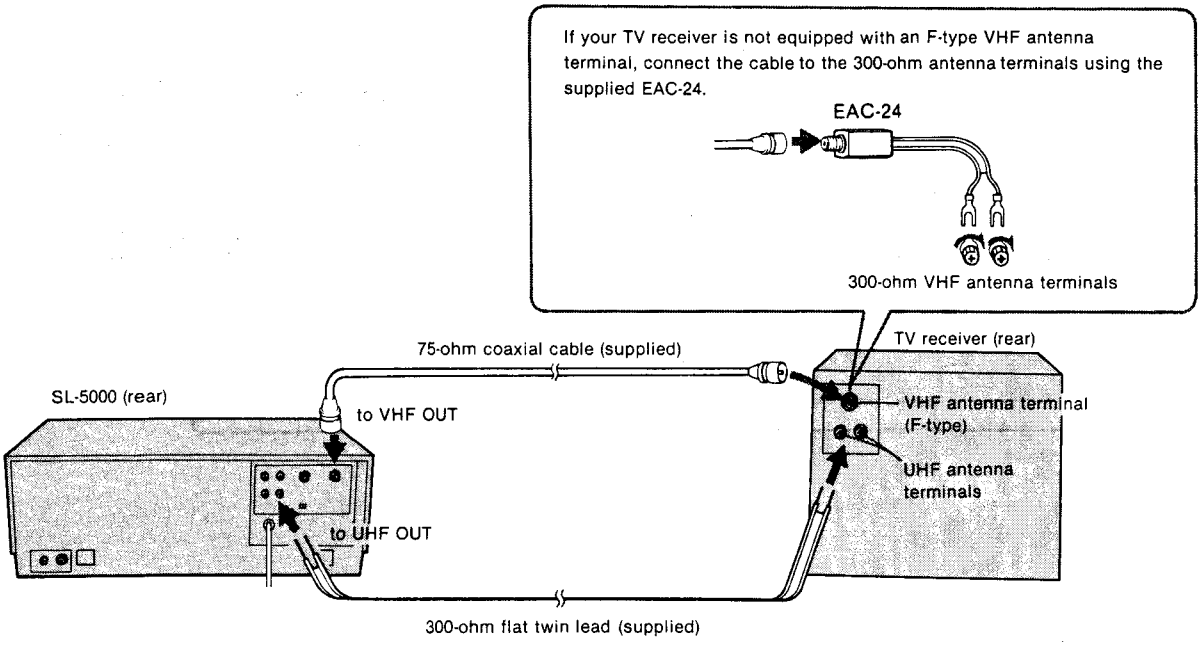


EAC-25

1-2-2. Connecting the TV Receiver

Connecting a conventional TV receiver
Once the connections shown below have been made, the antenna TV signals, as well as the signal from the recorder, will be fed to the TV and you can view TV programs in the usual way.

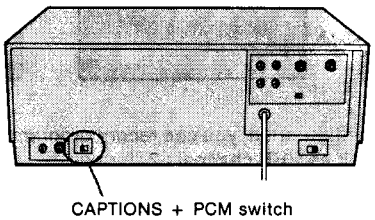
● Use an optional RFC-8 extension cable (available in the U.S.A. and Canada), 8 m (25 ft) long, if the supplied 75-ohm coaxial cable is not long enough.


If your TV receiver is not equipped with an F-type VHF antenna terminal, connect the cable to the 300-ohm antenna terminals using the supplied EAC-24.
EAC-24
300-ohm VHF antenna terminals
75-ohm coaxial cable (supplied)
TV receiver (rear)
SL-5000 (rear)
to VHF OUT
VHF antenna terminal (F-type)
UHF antenna terminals
to UHF OUT
300-ohm flat twin lead (supplied)

Caution
Connections between the recorder VHF OUT connector and the antenna terminals of a TV receiver should be made only as shown in these instructions. Failure to do so may result in operation that violates the regulations of the Federal Communications Commission regarding the use and operation of rf devices.
Never connect the output of the recorder to an antenna or make simultaneous (parallel) antenna and recorder connections at the antenna terminals of your receiver.

POWER CONNECTION
After the antenna and TV receiver have been connected, connect the ac power cord of the recorder to a wall outlet.

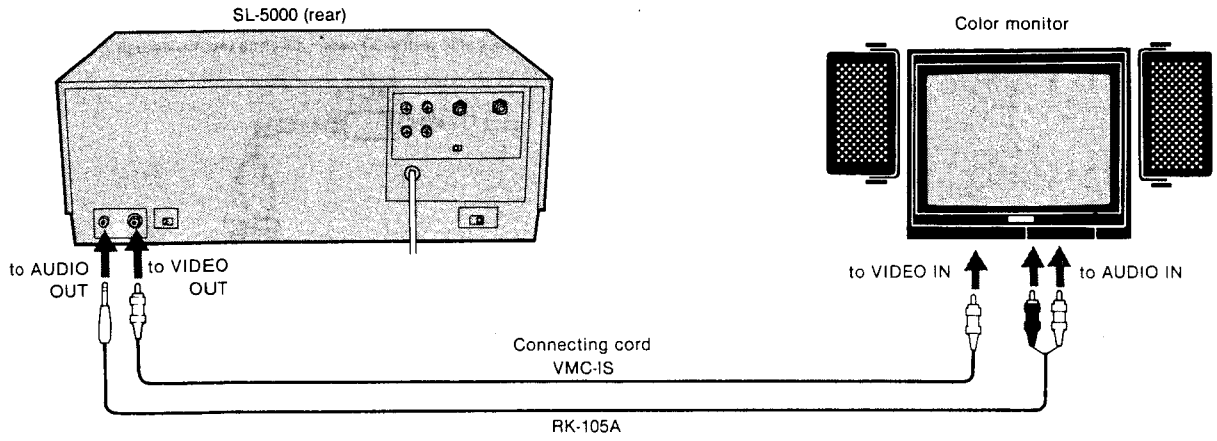
CAPTIONS + PCM switch
Captioned TV programs* can be recorded and played back with this recorder when a decoder unit or a TV designed to receive closed caption signals is connected. PCM recording and playback can also be made when a PCM digital audio processor, such as the Sony PCM-10, is connected. For captioned program or PCM playback, set the CAPTIONS + PCM switch under the cover to the left position.
For details, see the instruction manual of the decoder, the TV or the audio processor.



* TV programs for the hearing impaired broadcast in the U.S.A.

Connecting a color monitor
To obtain a high-quality picture, connect a color monitor, such as the Sony Profeel Trinitron Component TV, instead of a conventional TV receiver.

If you use a component TV tuner together with the monitor, connect the recorder and the TV tuner in the same way as in the case of the recorder and the conventional TV receiver described on the previous page. For details on the connection of the TV tuner and the monitor, refer to the instruction manual of the TV tuner.

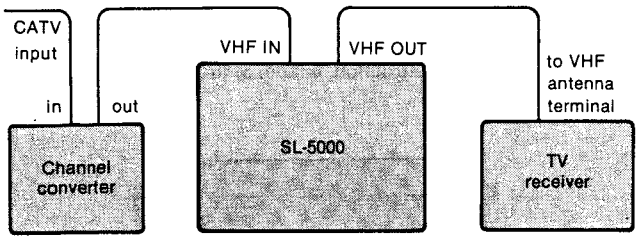


1-2-3. Connections to a Cable TV (CATV) System

- We recommend that you consult with your cable television company for proper connection of your Betamax unit to your cable TV system.
- Before operating the recorder with a cable TV system, set the RF UNIT channel selector on the recorder to channel 3 or 4, whichever is not active in your area.

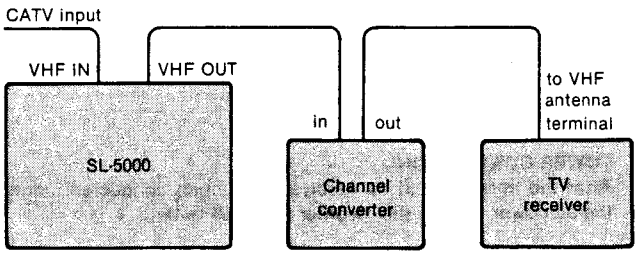
If both channels are viewable, check which gives better results by switching between channels 3 and 4.

System A



In the above configuration, you can record programs from all CATV channels as well as VHF channels 2 through 13.
Set the TV channel selector to the same channel as the RF UNIT channel selector. Set the channel select button on the recorder to receive the output channel of the converter.
Press the PROGRAM SELECT button on the recorder to turn the VTR lamp on. Now the channel to be viewed or to be recorded is selected on the converter.

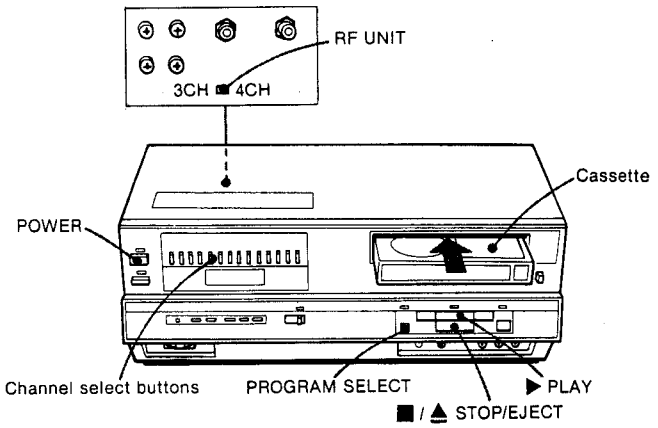
System B



In this configuration, you can view a program from the converter while recording a program from VHF channels 2 through 13 via the recorder.
Set the TV channel selector to the output channel of the converter and press the PROGRAM SELECT button to turn the VTR lamp off. For playback, set the channel selector on the converter to the same channel as the RF UNIT channel selector.
When a channel converter is not used, connect the CATV input to the recorder, then connect the recorder and the TV receiver as shown in the previous TV connection diagrams.

1-3. ADJUSTING THE TV

Adjust your TV receiver to receive the signal from your recorder.
When you have connected a color monitor, adjusting the TV is not necessary.



If you do not have a recorded video cassette tape

If you have a recorded video cassette tape

❶ Set the RF UNIT channel selector located at the rear of the recorder to 3CH or 4CH whichever channel is not active in your area.
❷ Push in the POWER button. The lamp lights.

❸ Press the PROGRAM SELECT button to turn the VTR lamp on.
❹ Select an active channel in your area with a channel select button on the recorder.

❸ Insert the cassette with the round window to the left.
❹ Press the ▶ button.

❺ Turn on the TV.
❻ Set the TV receiver to either VHF channel 3 or 4 to agree with the setting of the RF UNIT channel selector.
The TV program selected on the recorder or the tape program will be displayed on the TV screen. If a picture does not appear on the TV screen or if the display is not clear, fine tune the channel on the TV.
● For details about TV channel adjustment, see the instruction manual of the TV receiver.

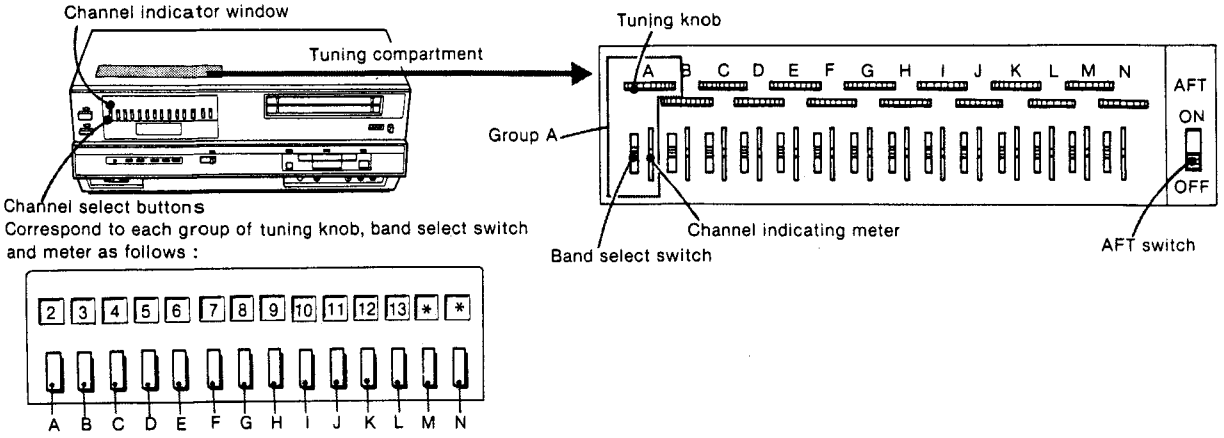
Check!
Check that the program displayed on the screen changes when a different channel select button on the recorder is selected.
If the program does not change, repeat the preceding steps.

Check!
Check that the display on the screen changes when you stop the tape by pressing the ■ / ▲ button on the recorder. (To eject the cassette, press the ■ / ▲ button again.)
If the program does not change, repeat the preceding steps.

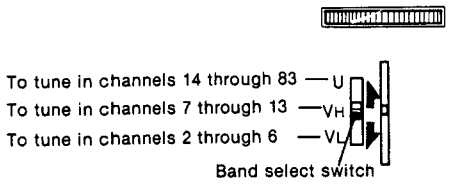
Now your TV receiver is tuned to the recorder. Whenever you use the video recorder, you should set the TV to the channel which you have chosen above.

1-4. TO SET THE RECORDER CHANNEL SELECT BUTTONS TO THE TV STATIONS IN YOUR AREA

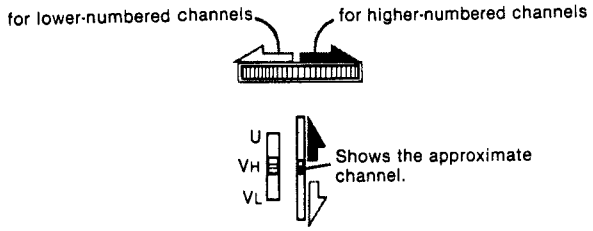
The channel select buttons are pre-adjusted at the factory to VHF channels 2 through 13 and to two UHF channels. These pre-adjusted channels may be set up to receive any local station, VHF or UHF.


Channel indicator window
Tuning compartment
Tuning knob
A B C D E F G H I J K L M N
AFT
ON
OFF
Group A
Channel select buttons
Correspond to each group of tuning knob, band select switch and meter as follows :
Channel indicating meter
Band select switch
AFT switch
2 3 4 5 6 7 8 9 10 11 12 13 * *
A B C D E F G H I J K L M N

❶ Make sure of the following:
—that the VHF and UHF antennas and the TV receiver are connected. (See pages 3, 4 and 5.)
—that your TV receiver and recorder are turned on.
—that the PROGRAM SELECT button has been pressed (The VTR lamp should be lit).
—that the TV receiver is set to the correct channel for the video recorder.
❷ Open the tuning compartment.
❸ Set the AFT switch to OFF.
❹ Push the recorder channel select button to be preset.
The associated channel indicator will light.
❺ Set the band select switch associated with the pushed button to one of these positions : VL, VH or U.



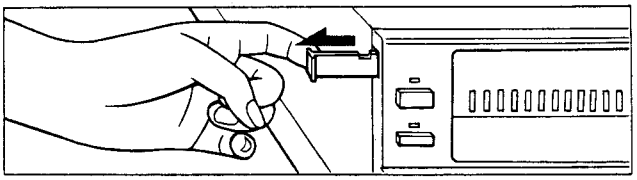
❻ Turn the tuning knob, watching the TV screen until the picture of the desired channel is clearly displayed and the sound is clear.



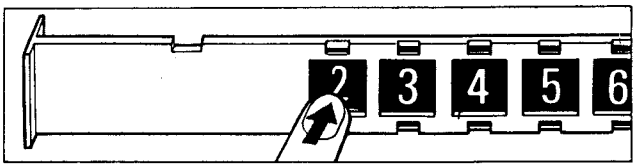
To identify the channels, consult a newspaper, TV program guide or another TV set.
❼ Repeat steps ❹, ❺ and ❻ for the other channel select buttons.
❽ Set the AFT switch to ON when all stations have been set up as desired.

To replace the channel indicating segments
Channel indicating segments are supplied for identification of the preset channels. Affix the segments as follows :

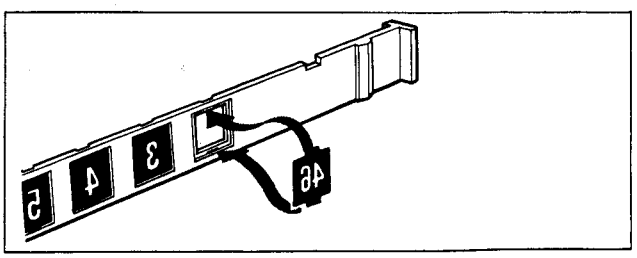
❶ Pull out the channel indication plate.



❷ Press the segment out from the front.



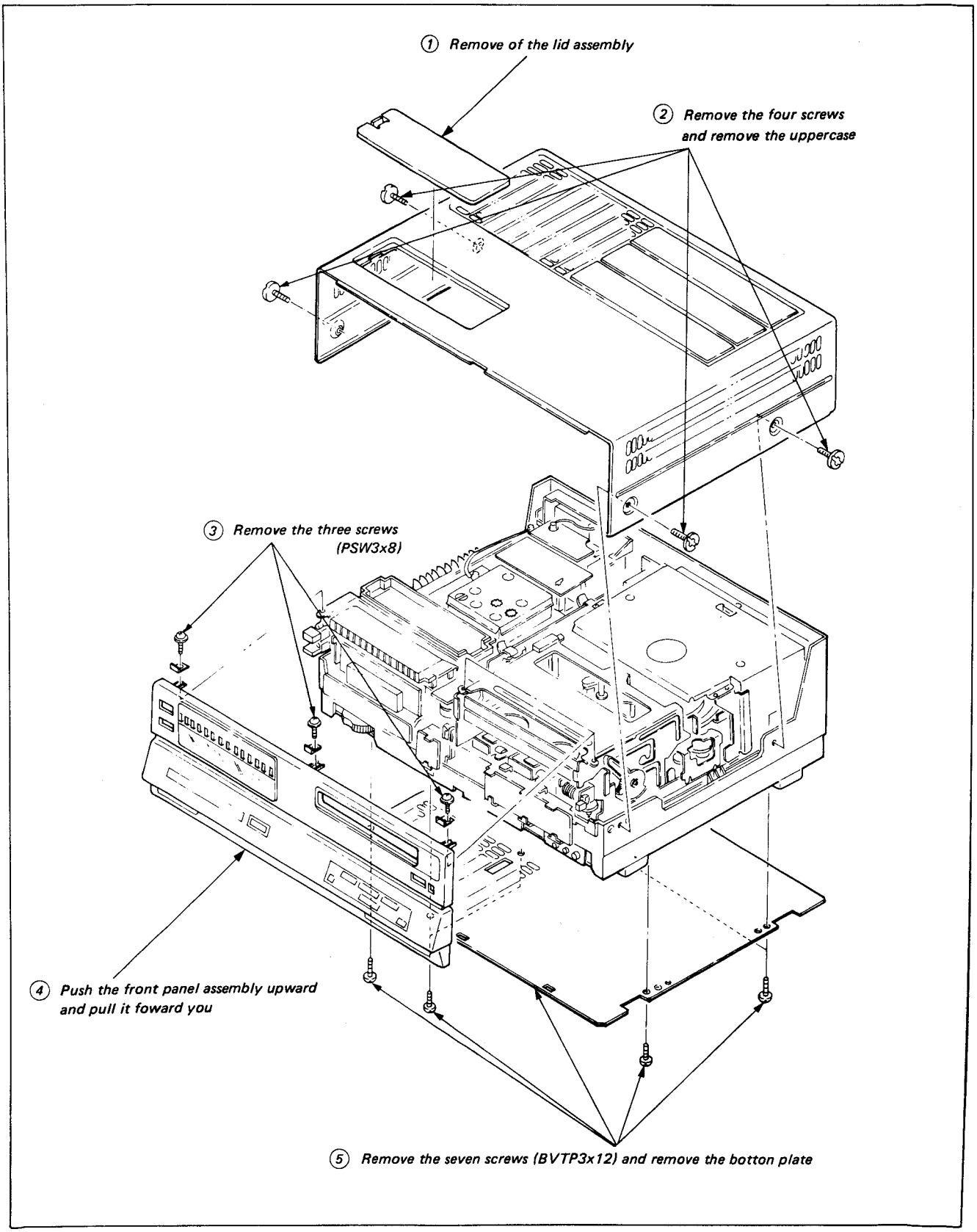
❸ Pick out the appropriate segments for the channels preset and insert them into the plate.



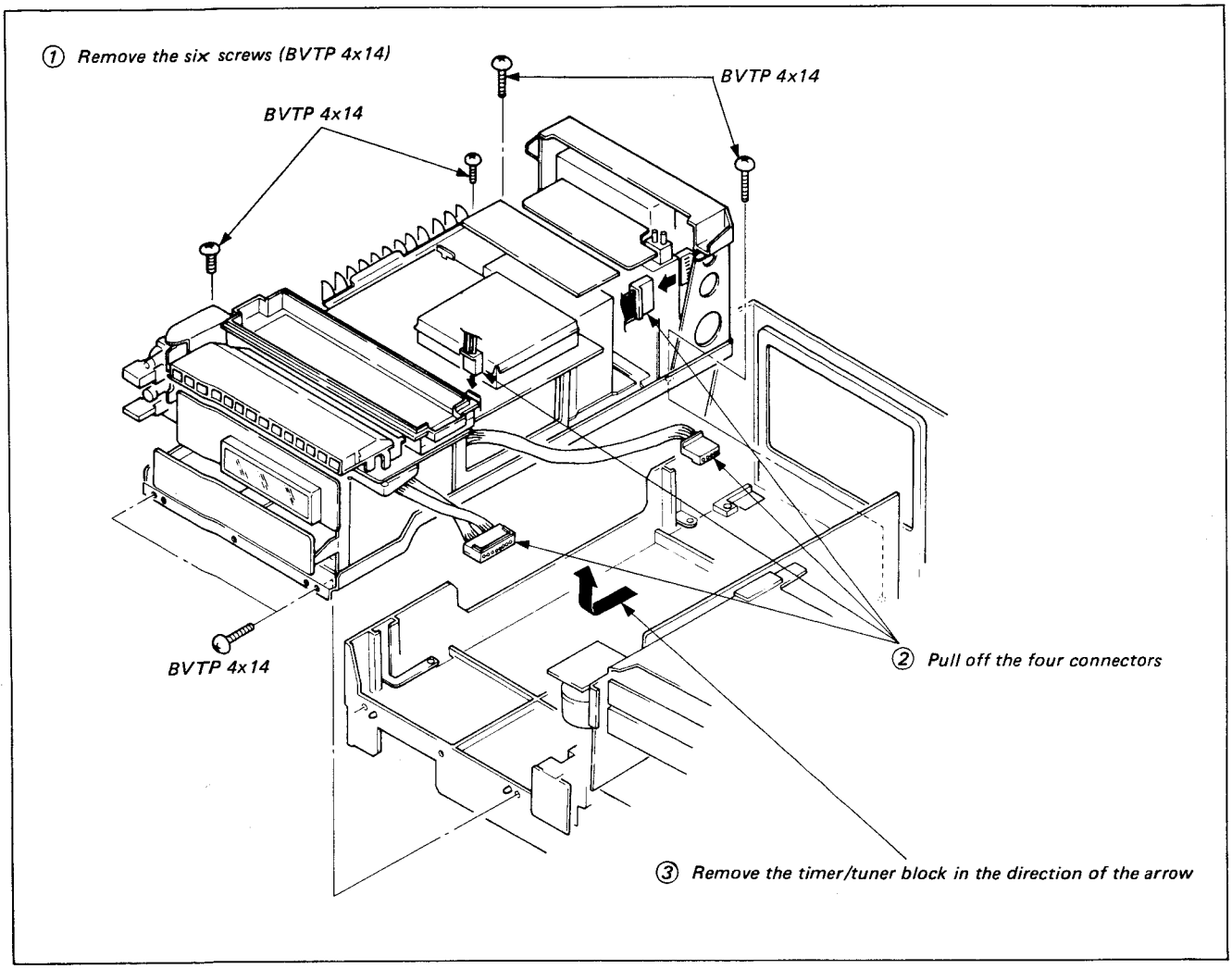
❹ Replace the plate.

1-5. DISASSEMBLY

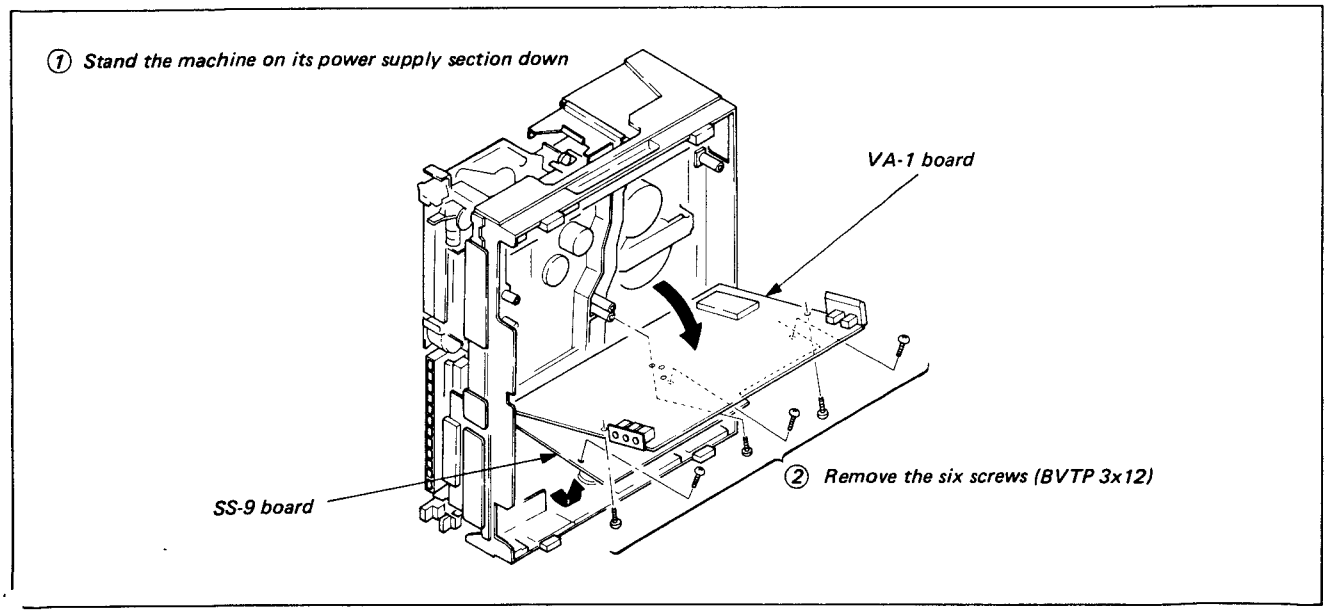
1-5-1. Cabinet Removal


① Remove of the lid assembly
② Remove the four screws and remove the uppercase
③ Remove the three screws (PSW3x8)
④ Push the front panel assembly upward and pull it foward you
⑤ Remove the seven screws (BVTP3x12) and remove the botton plate

1-5-2. Timer/Tuner Block Removal


① Remove the six screws (BVTP 4x14)
BVTP 4x14
BVTP 4x14
BVTP 4x14
② Pull off the four connectors
③ Remove the timer/tuner block in the direction of the arrow

1-5-3. Check of VA-1 and SS-9 Boards

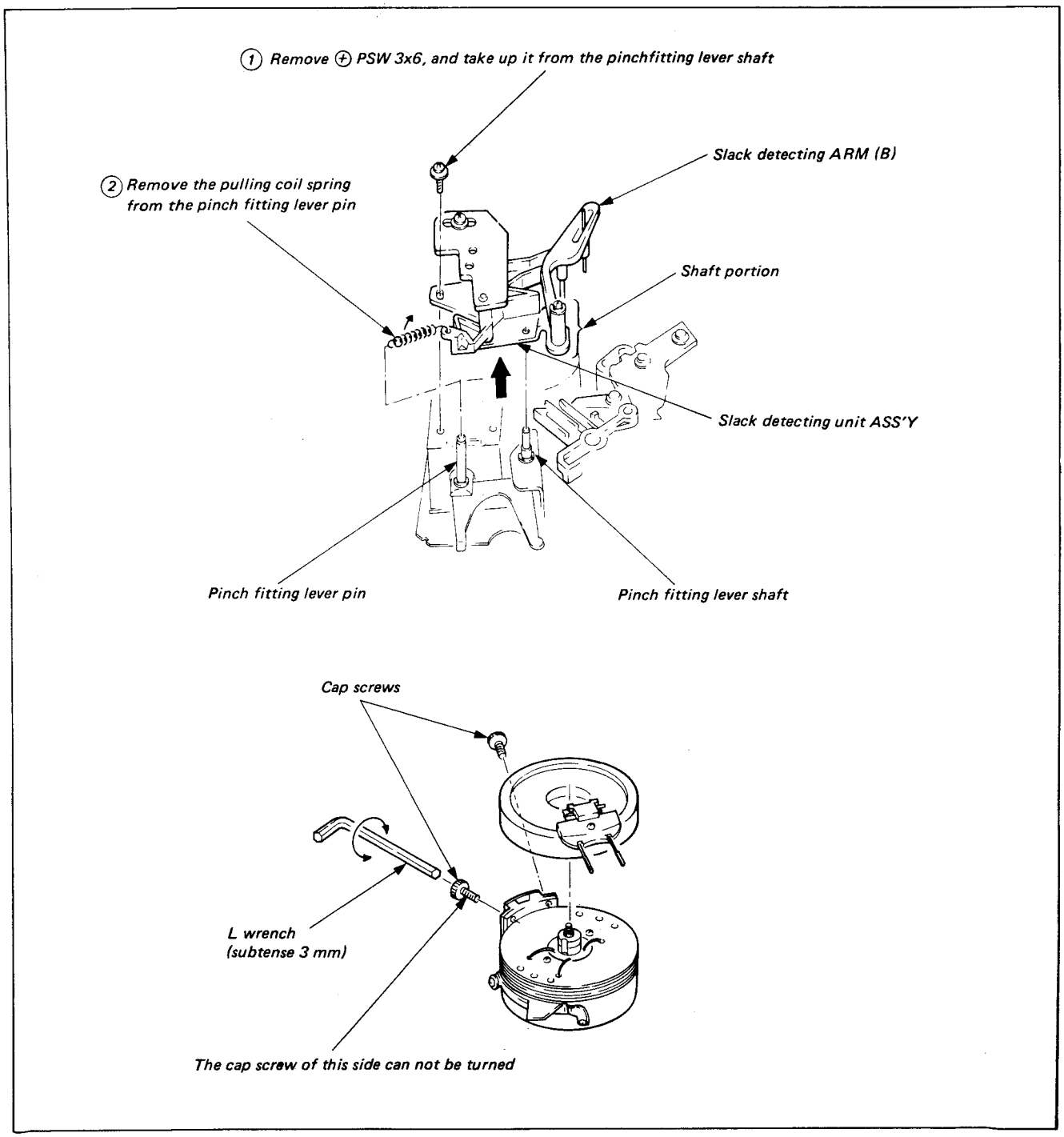


1-5-4. Upper Drum Removal

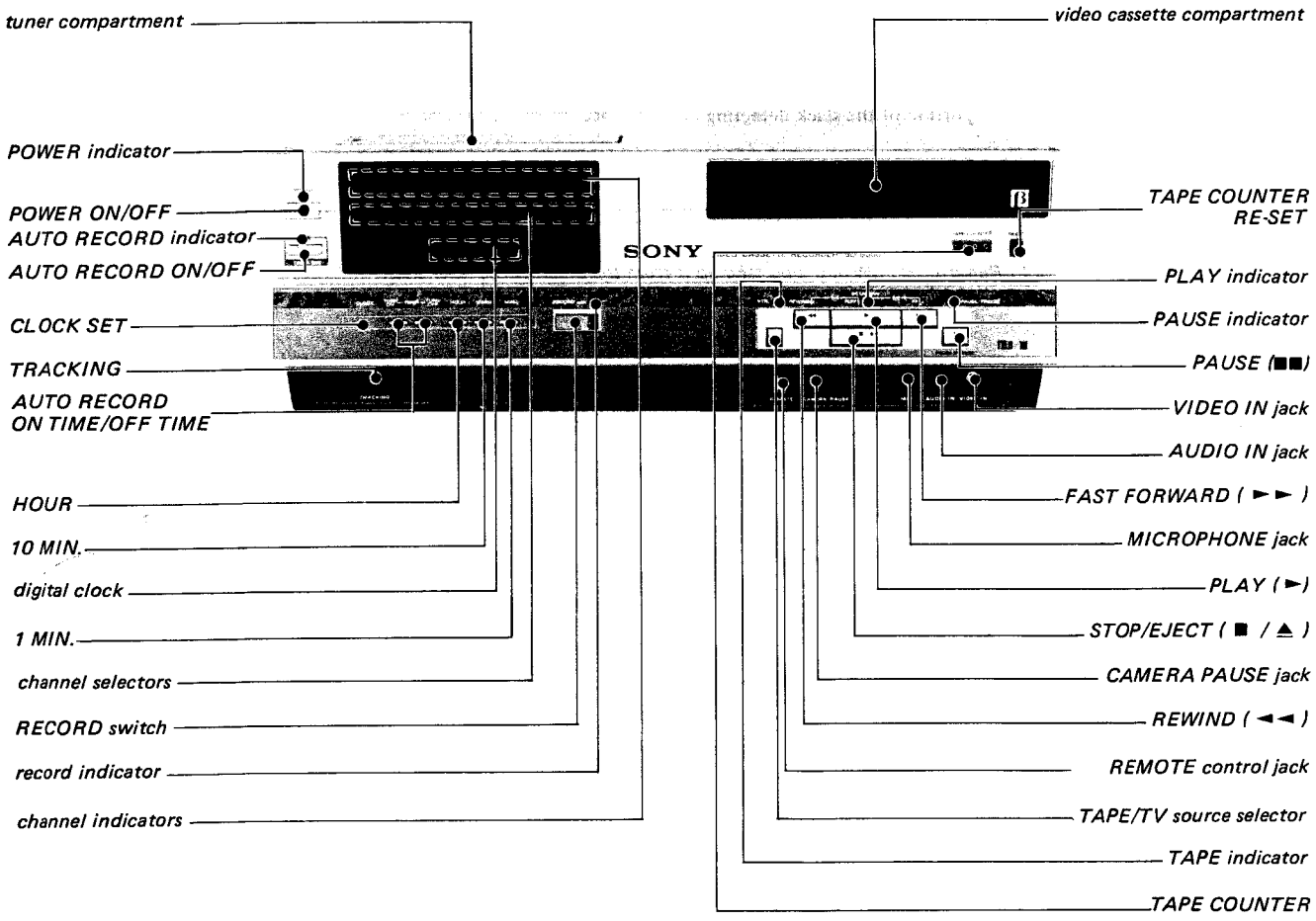
Serial No. (200,001 to 218,000)
(200,001 to 203,000)

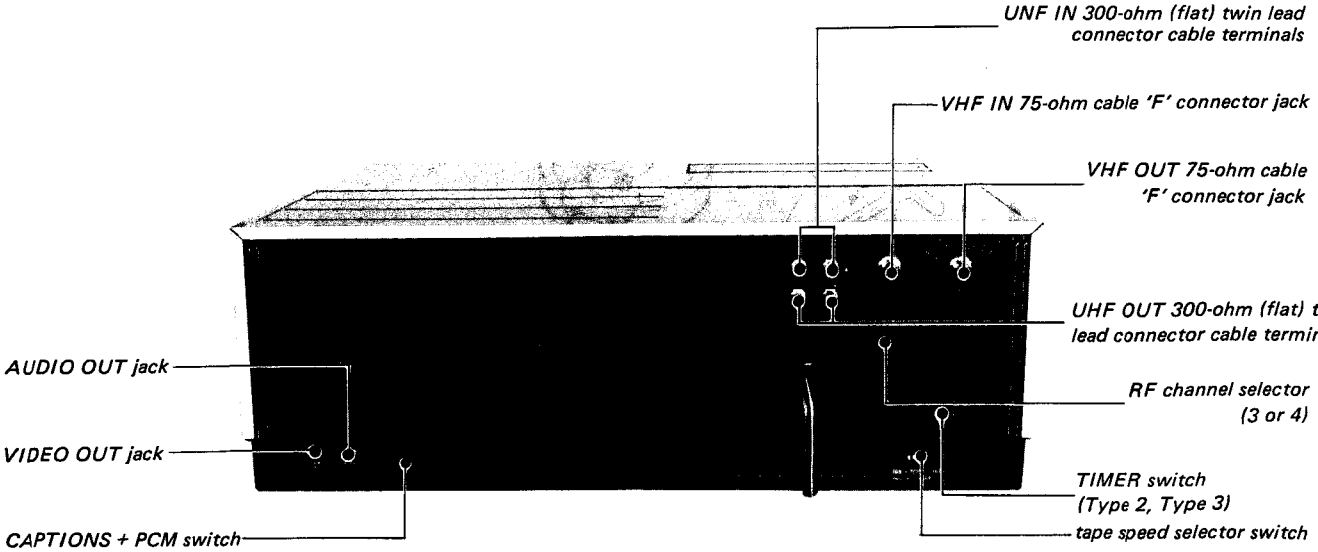
As illustrated below, in the case that the cap screws are romoved to adjust the cylindrical degree and to replace RD for maintenance service, Remove tham by the L wrench (Subtense 3 mm) after removing the ASS'Y of the slack detecting unit.

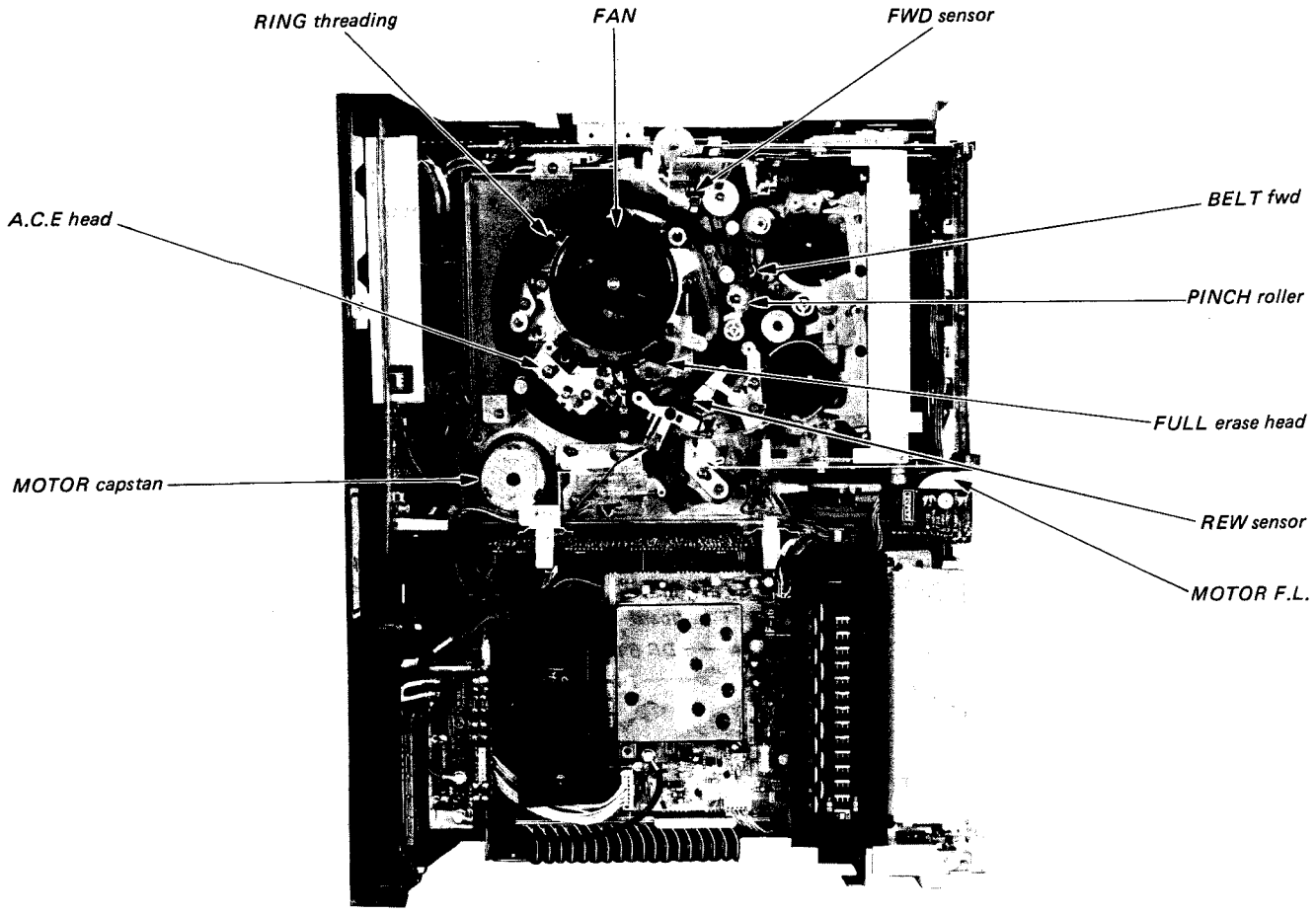
It is due to the reason why the cap screw can not be turned so that the L wrench may touch to the shaft portion of the slack detecting arm (B)

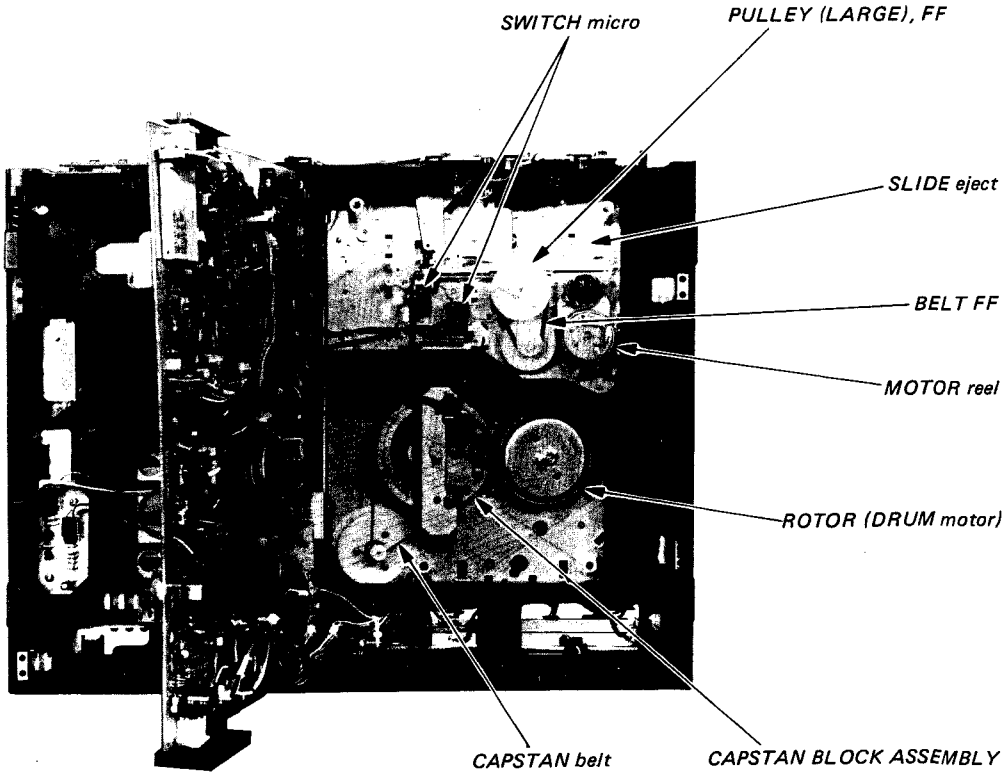

① Remove ⊕ PSW 3x6, and take up it from the pinchfitting lever shaft
Slack detecting ARM (B)
② Remove the pulling coil spring from the pinch fitting lever pin
Shaft portion
Slack detecting unit ASS'Y
Pinch fitting lever pin
Pinch fitting lever shaft
Cap screws
L wrench (subtense 3 mm)
The cap screw of this side can not be turned

1-6. LOCATION OF PARTS AND CONTROLS

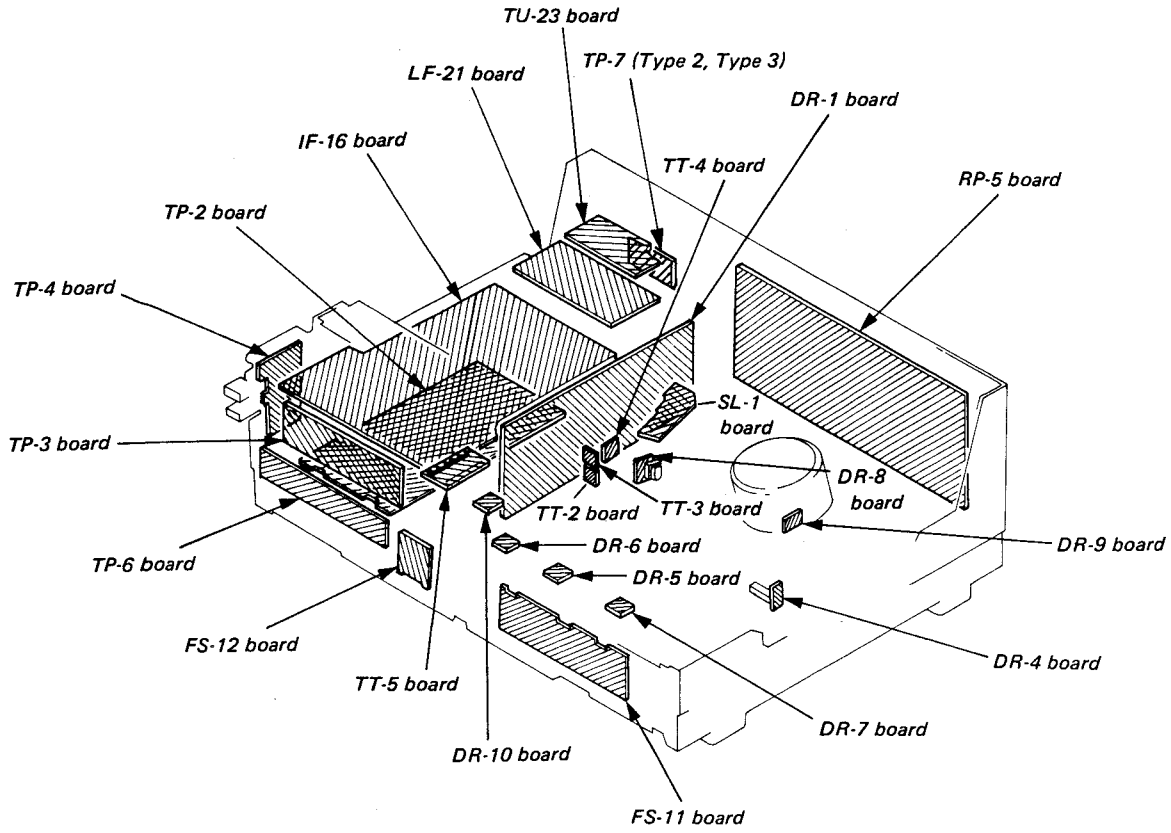


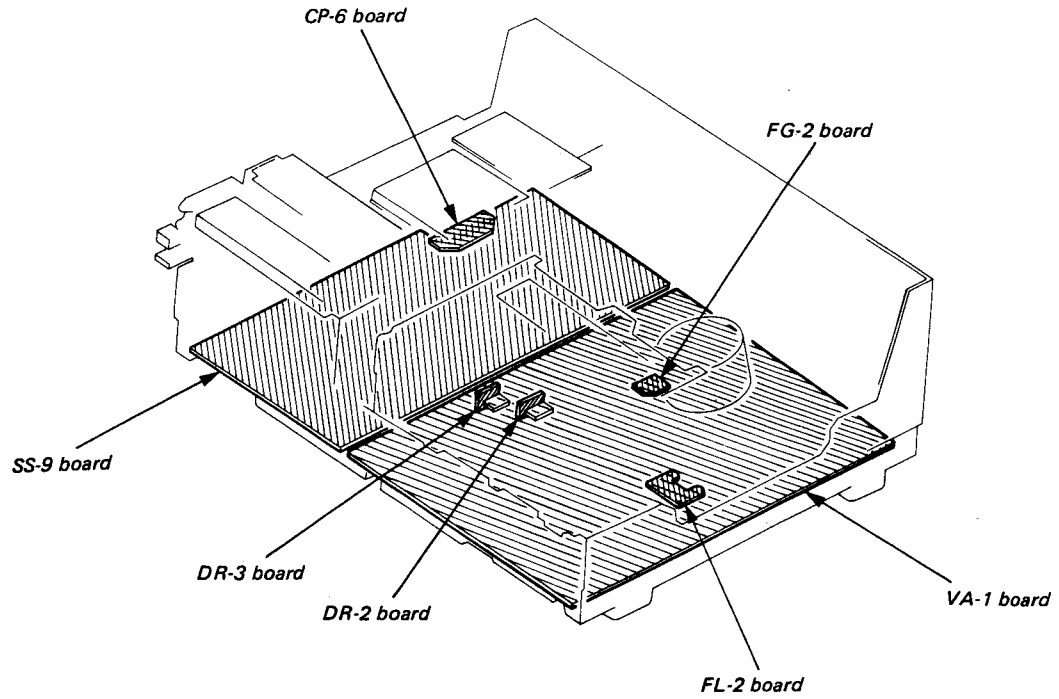

UNF IN 300-ohm (flat) twin lead connector cable terminals
VHF IN 75-ohm cable 'F' connector jack
VHF OUT 75-ohm cable 'F' connector jack
UHF OUT 300-ohm (flat) twin lead connector cable terminals
RF channel selector (3 or 4)
AUDIO OUT jack
VIDEO OUT jack
CAPTIONS + PCM switch
TIMER switch (Type 2, Type 3)
tape speed selector switch


RING threading
FAN
FWD sensor
A.C.E head
BELT fwd
PINCH roller
FULL erase head
MOTOR capstan
REW sensor
MOTOR F.L.


SWITCH micro
PULLEY (LARGE), FF
SLIDE eject
BELT FF
MOTOR reel
ROTOR (DRUM motor)
CAPSTAN belt
CAPSTAN BLOCK ASSEMBLY

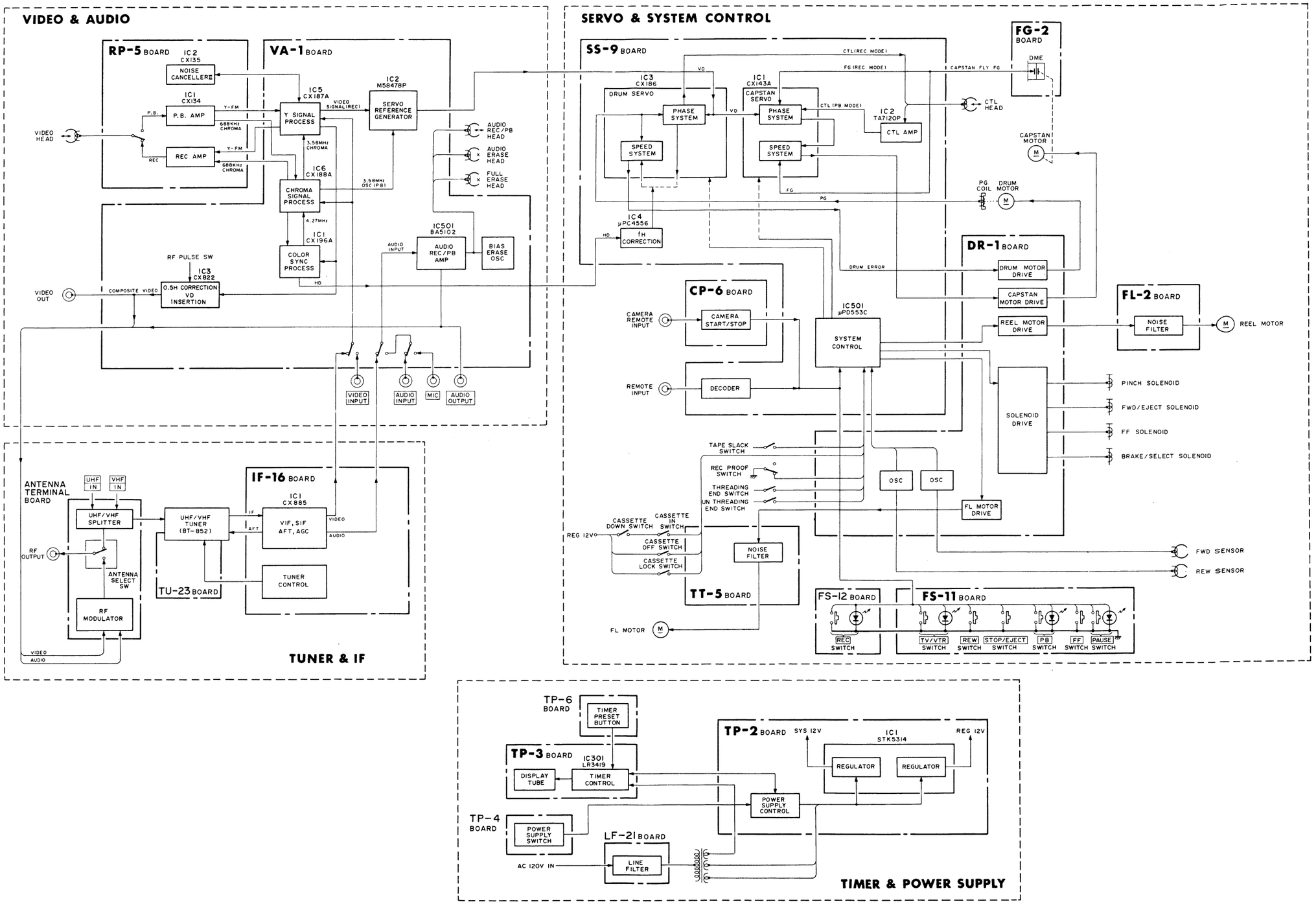
CIRCUIT BOARDS LOCATION



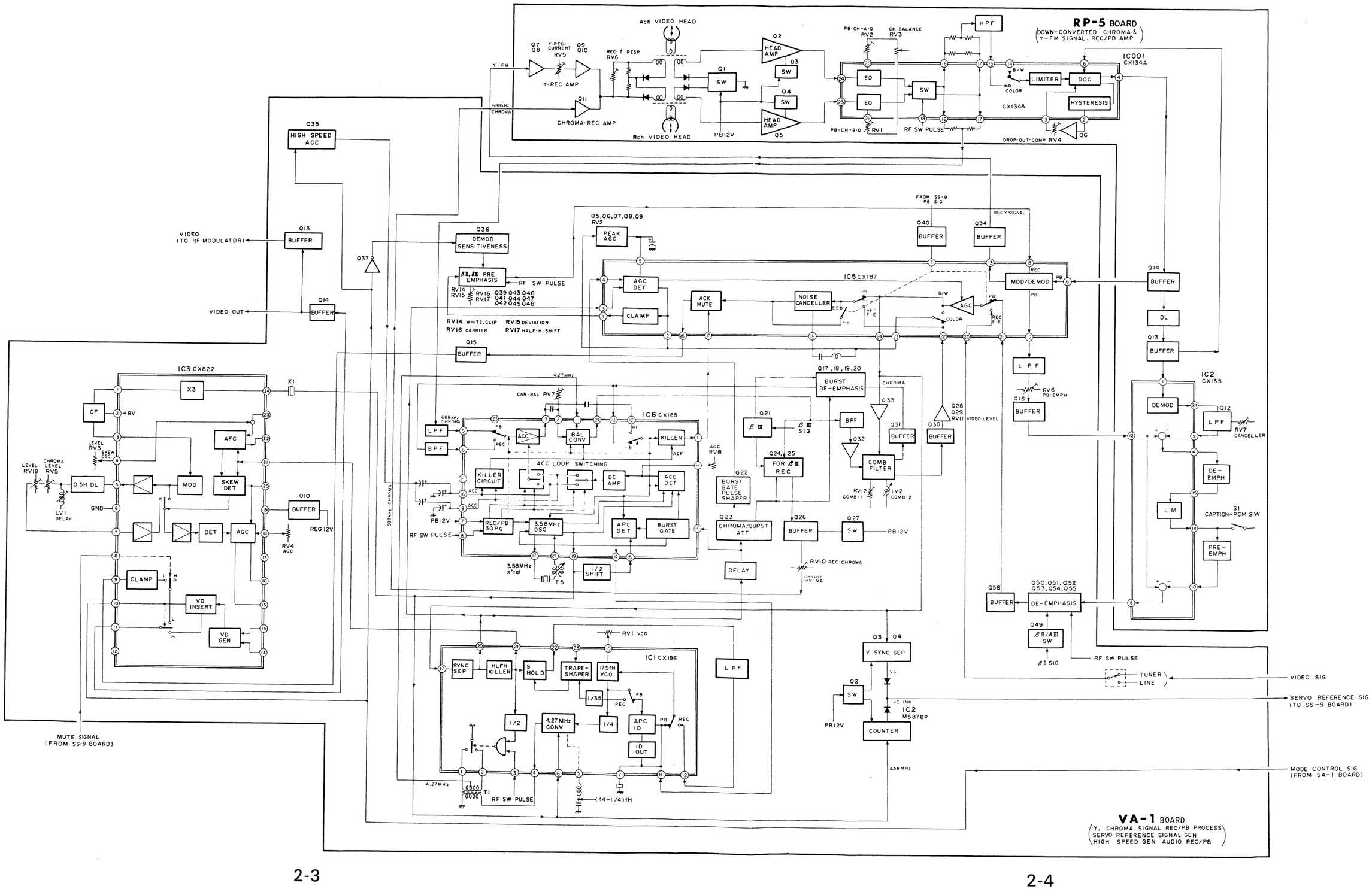


SECTION 2
BLOCK DIAGRAMS

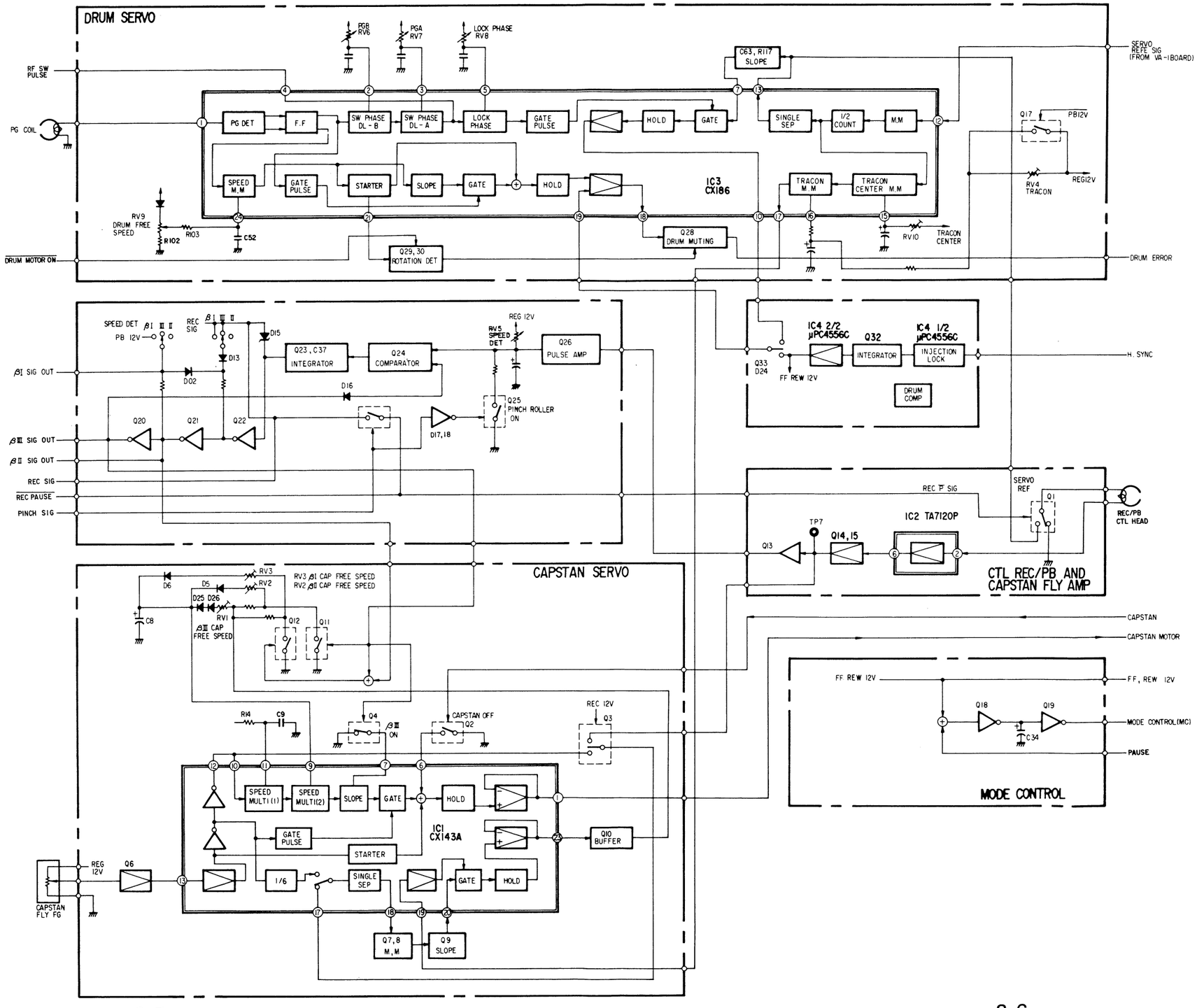
OVERALL BLOCK DIAGRAM



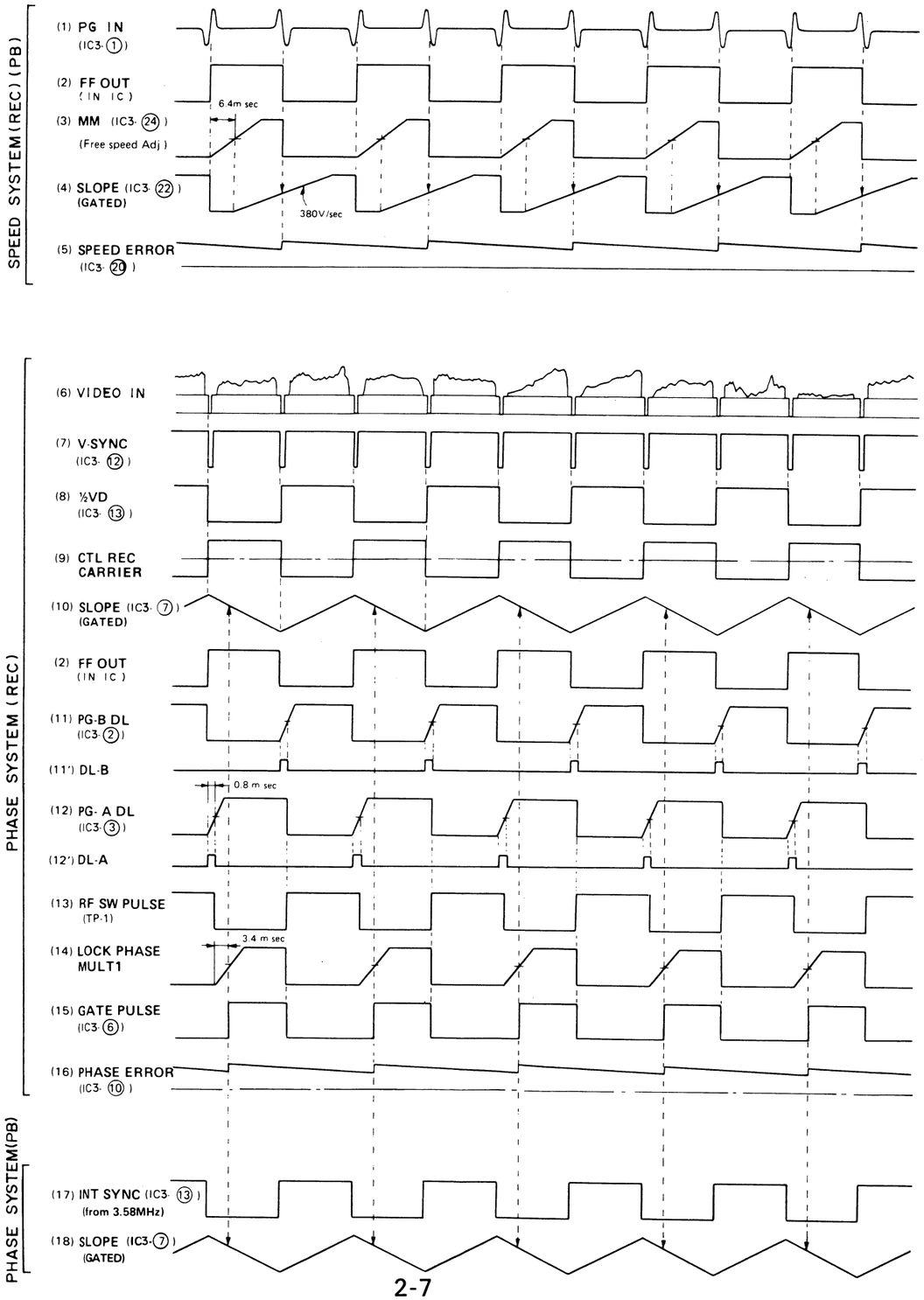
VIDEO SYSTEM BLOCK DIAGRAM



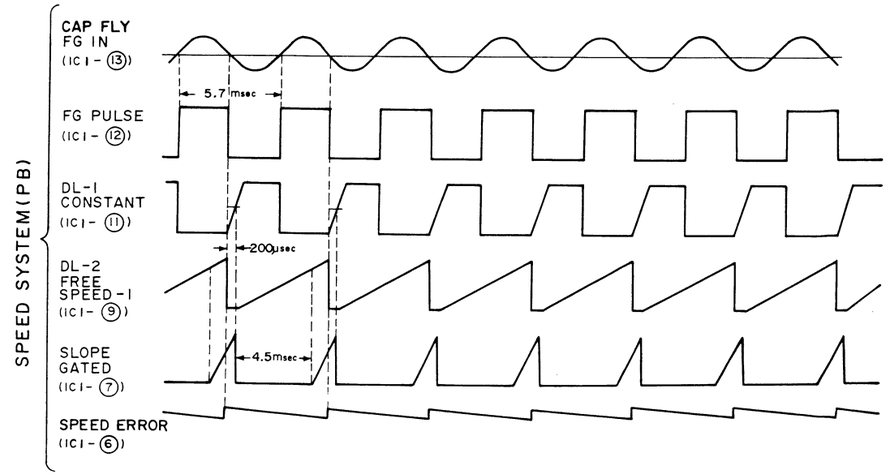
SERVO SYSTEM BLOCK DIAGRAM



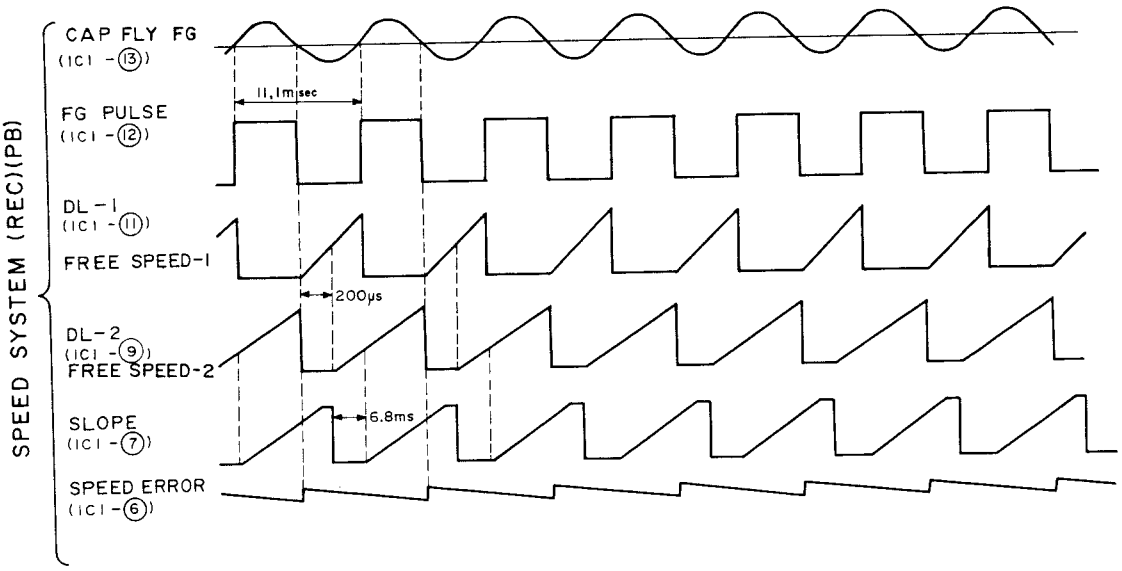
DRUM SERVO TIMING CHART

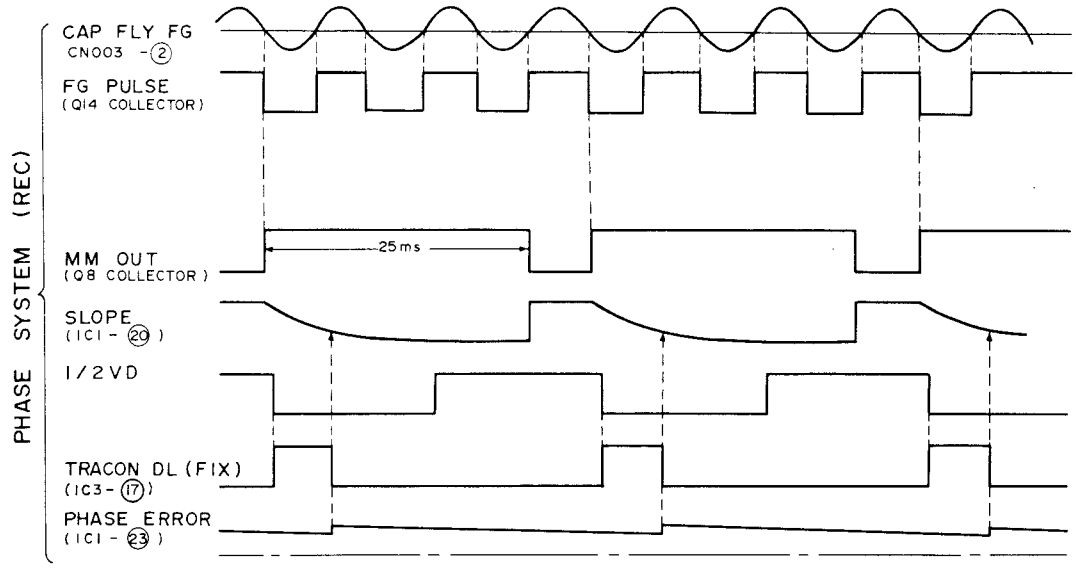

SPEED SYSTEM (REC) (PB)
(1) PG IN (IC3- ①)
(2) FF OUT (IN IC)
6.4m sec
(3) MM (IC3- ㉔) (Free speed Adj)
(4) SLOPE (IC3- ㉒) (GATED)
380V/sec
(5) SPEED ERROR (IC3- ⑳)
(6) VIDEO IN
(7) V-SYNC (IC3- ⑫)
(8) ½VD (IC3- ⑬)
(9) CTL REC CARRIER
(10) SLOPE (IC3- ⑦) (GATED)
PHASE SYSTEM (REC)
(2) FF OUT (IN IC)
(11) PG-B DL (IC3- ②)
(11') DL-B
0.8 m sec
(12) PG- A DL (IC3- ③)
(12') DL-A
(13) RF SW PULSE (TP-1)
3.4 m sec
(14) LOCK PHASE MULT1
(15) GATE PULSE (IC3- ⑥)
(16) PHASE ERROR (IC3- ⑩)
PHASE SYSTEM(PB)
(17) INT SYNC (IC3- ⑬) (from 3.58MHz)
(18) SLOPE (IC3- ⑦) (GATED)

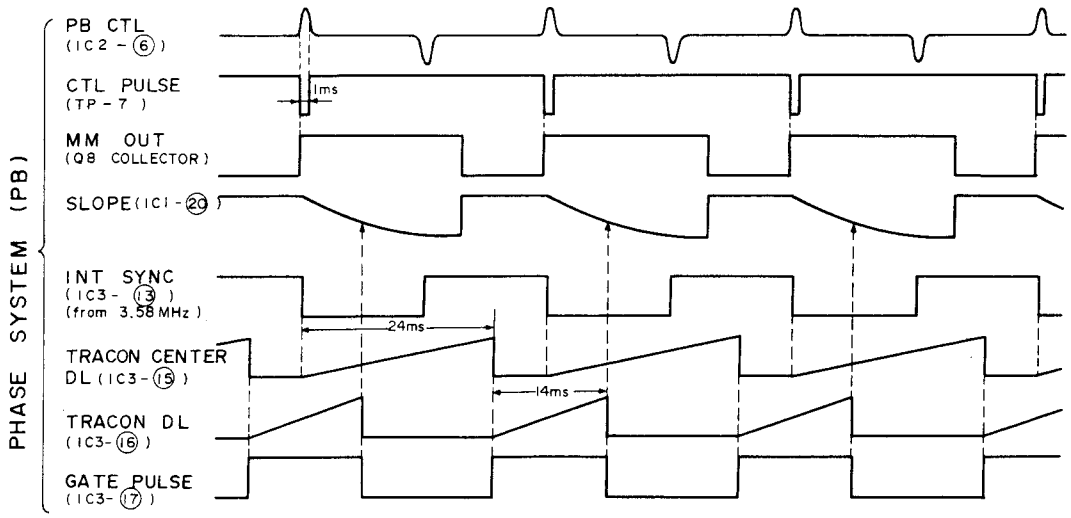
CAPSTAN SERVO TIMING CHART (βI)



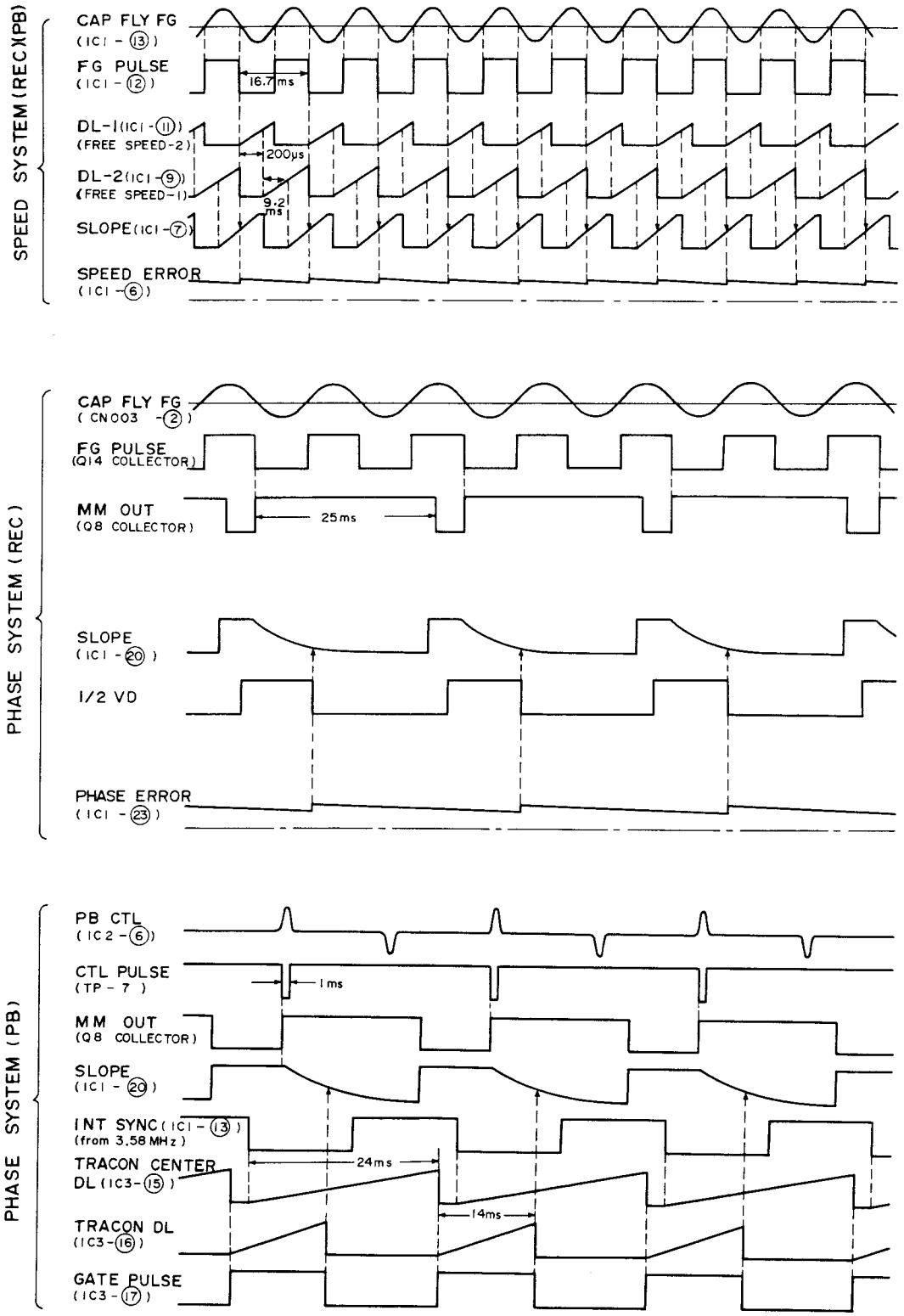
CAPSTAN SERVO TIMING CHART (βII)



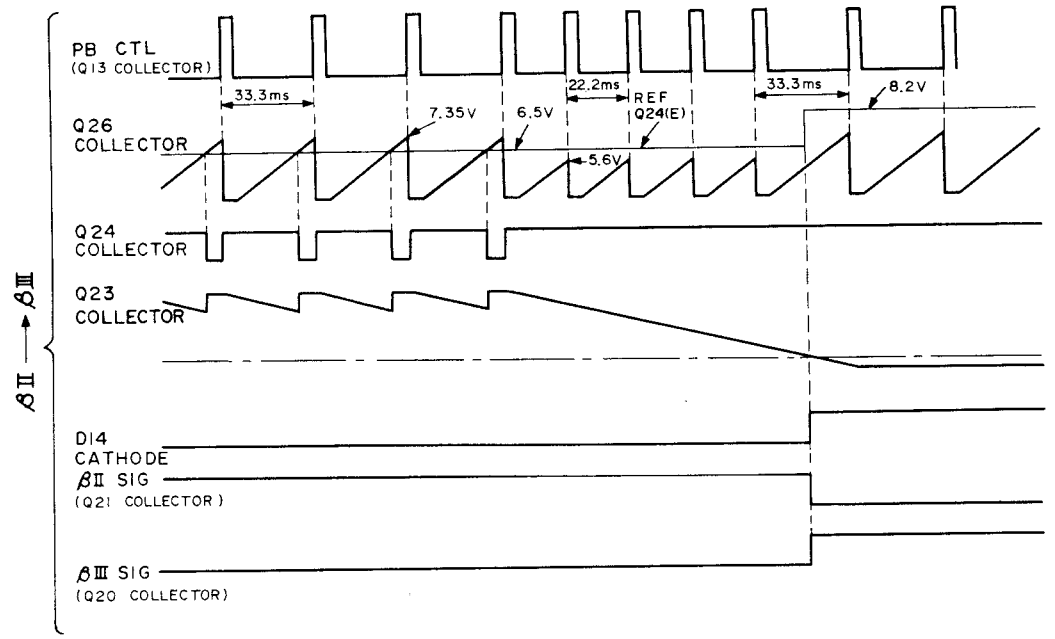


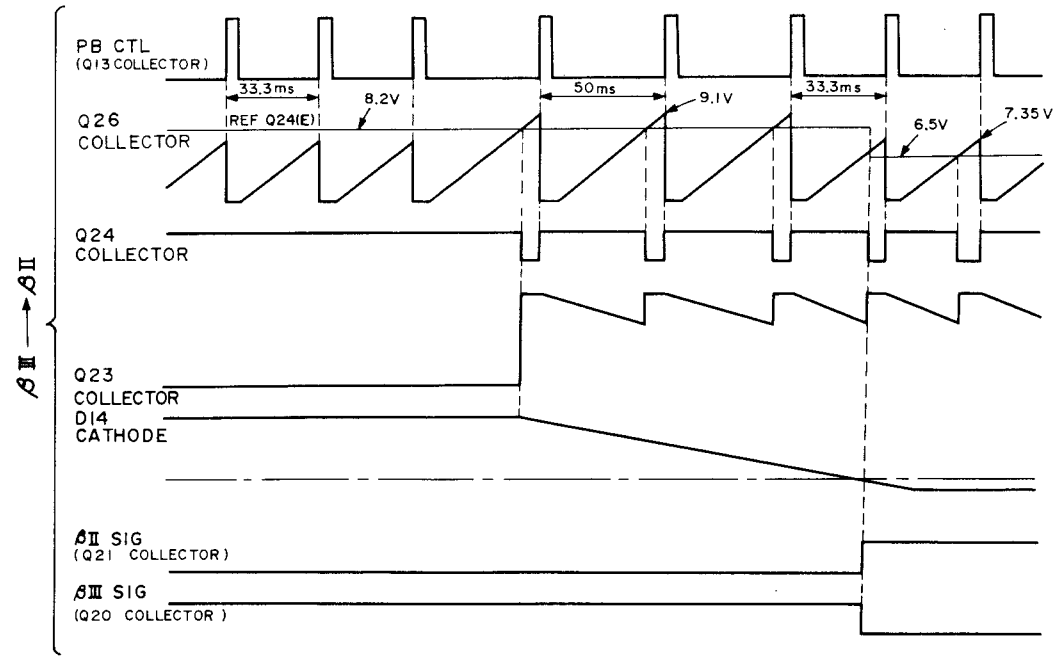


CAPSTAN SERVO TIMING CHART (βIII)

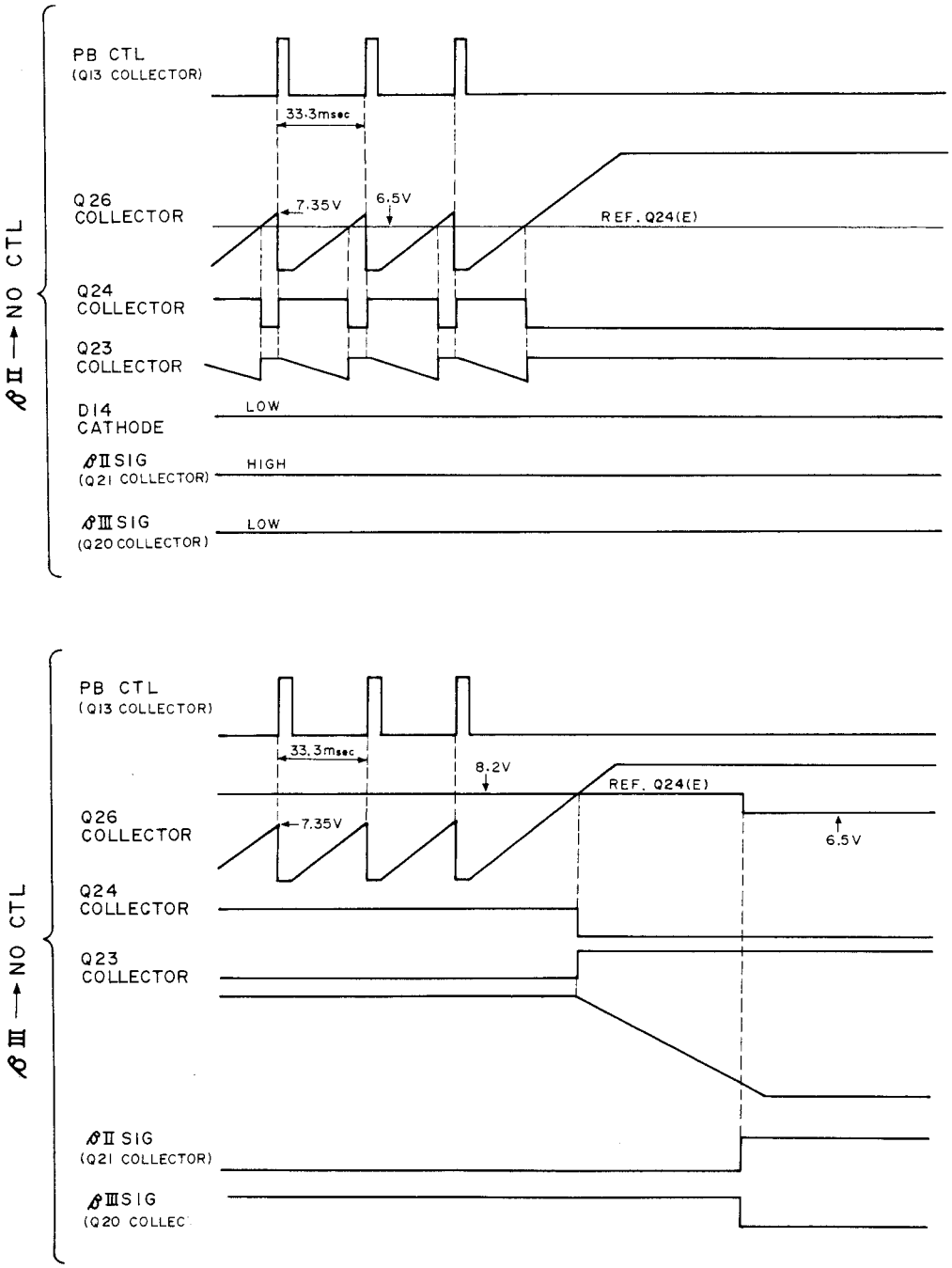


TAPE SPEED AUTOMATIC TIMING CHART (1)

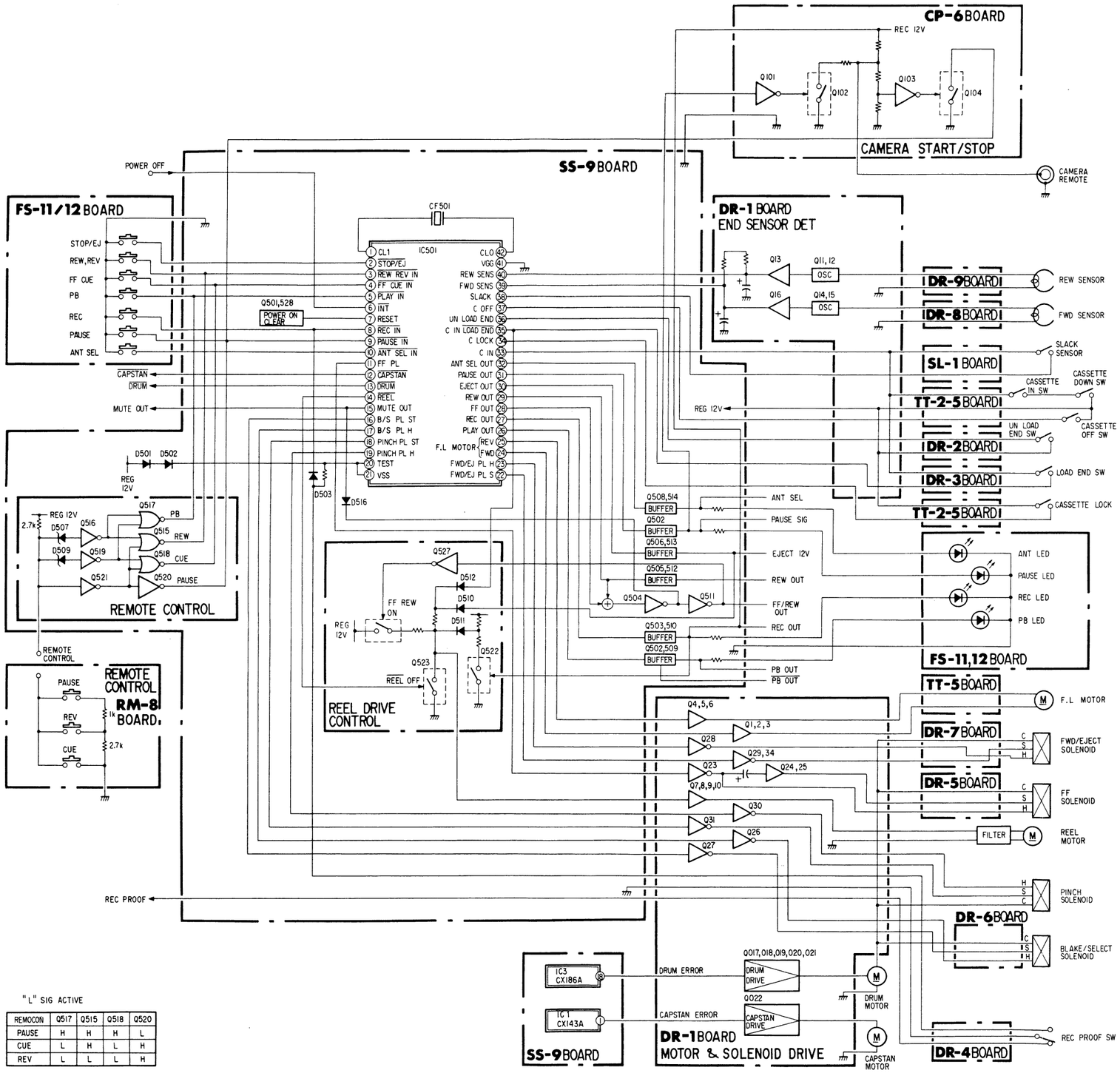




TAPE SPEED AUTOMATIC TIMING CHART (2)



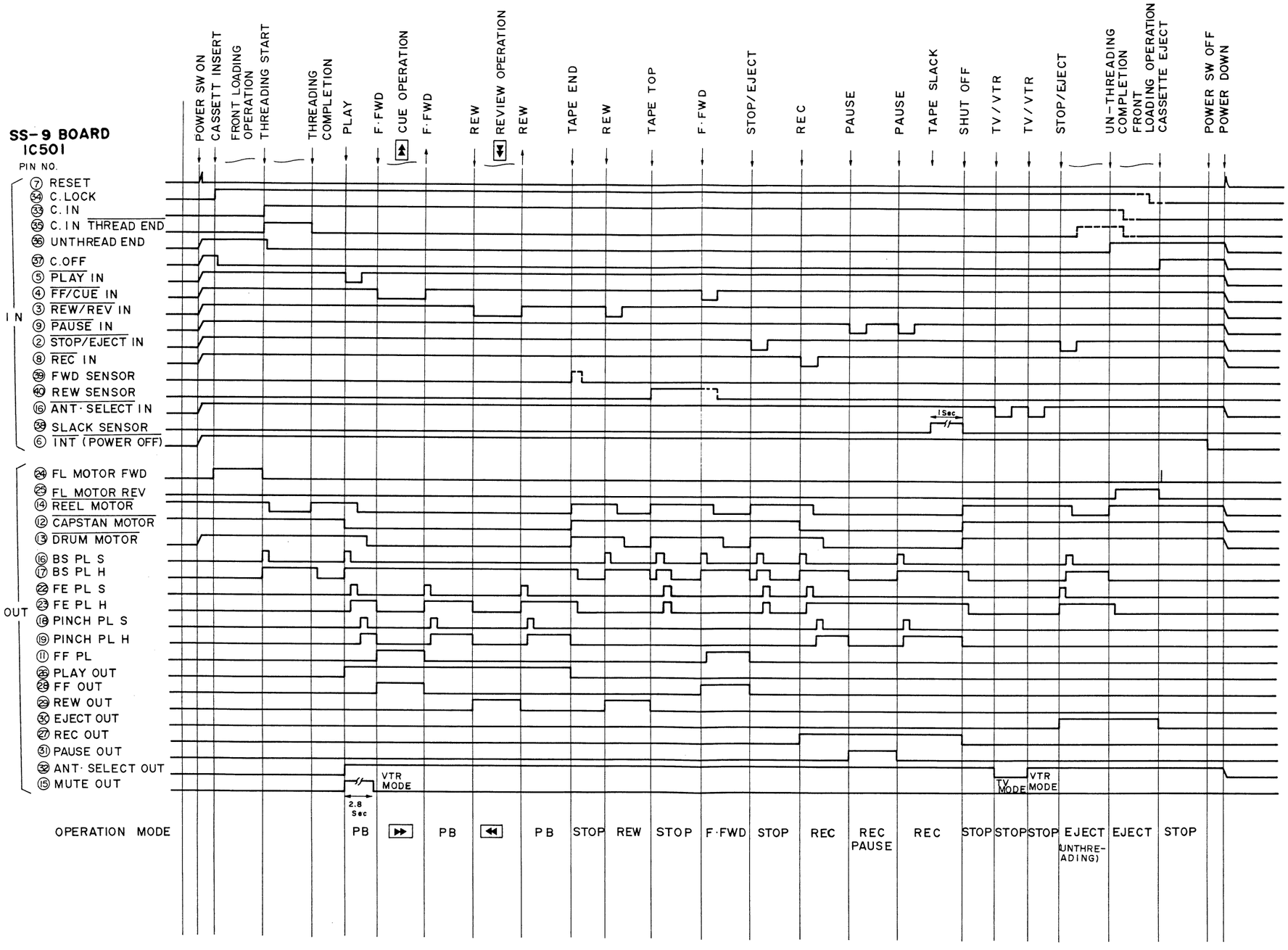
SYSTEM CONTROL BLOCK DIAGRAM



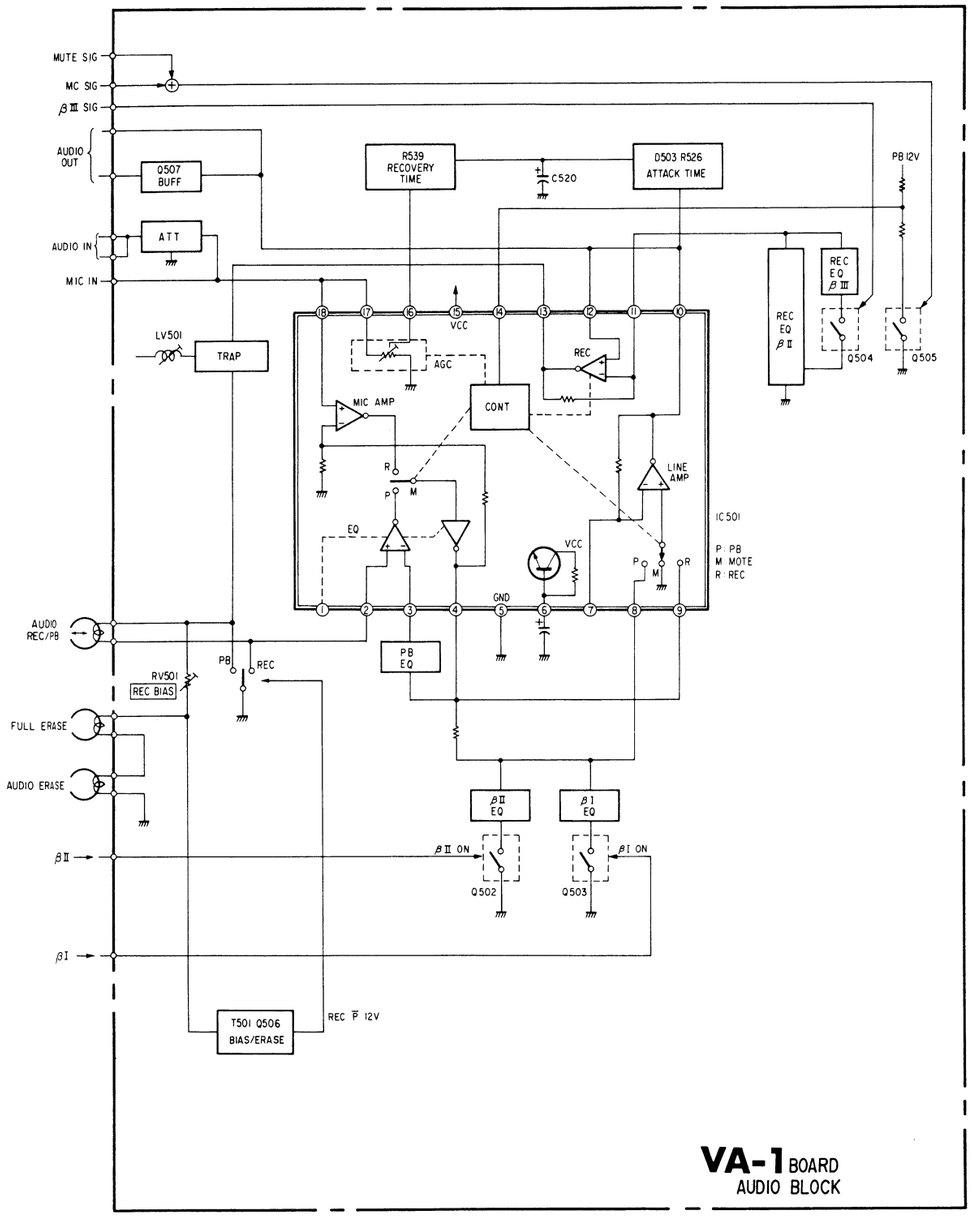
"L" SIG ACTIVE

REMOCON	Q517	Q515	Q518	Q520
PAUSE	H	H	H	L
CUE	L	H	L	H
REV	L	L	L	H

SYSTEM CONTROL TIMING CHART

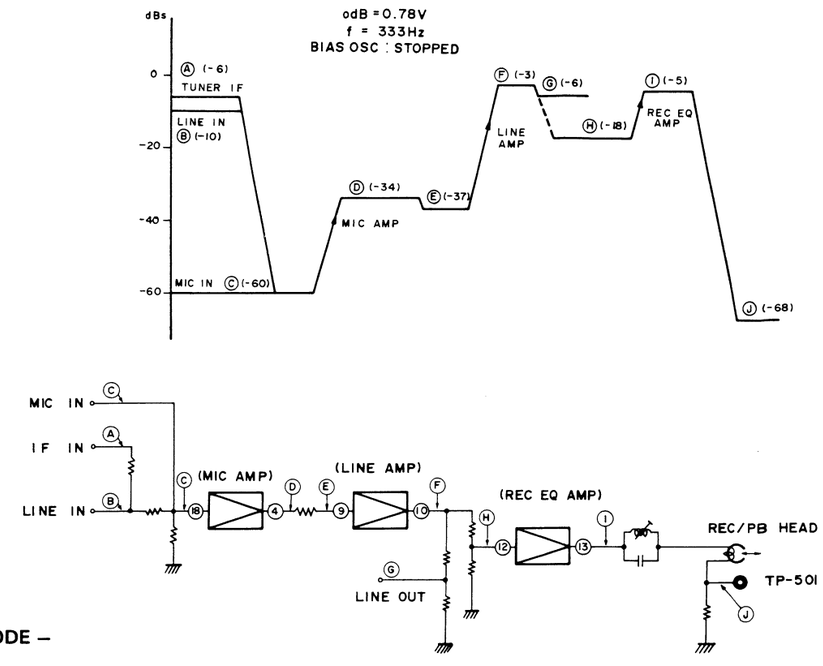


AUDIO BLOCK DIAGRAM



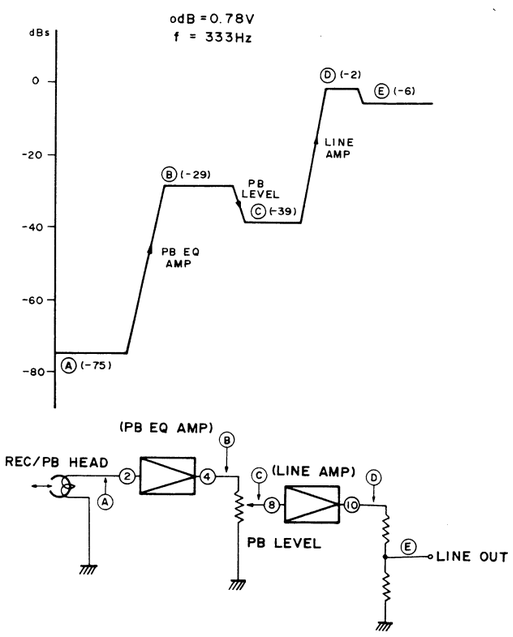
AUDIO LEVEL DIAGRAM
– REC MODE –

REC MODE

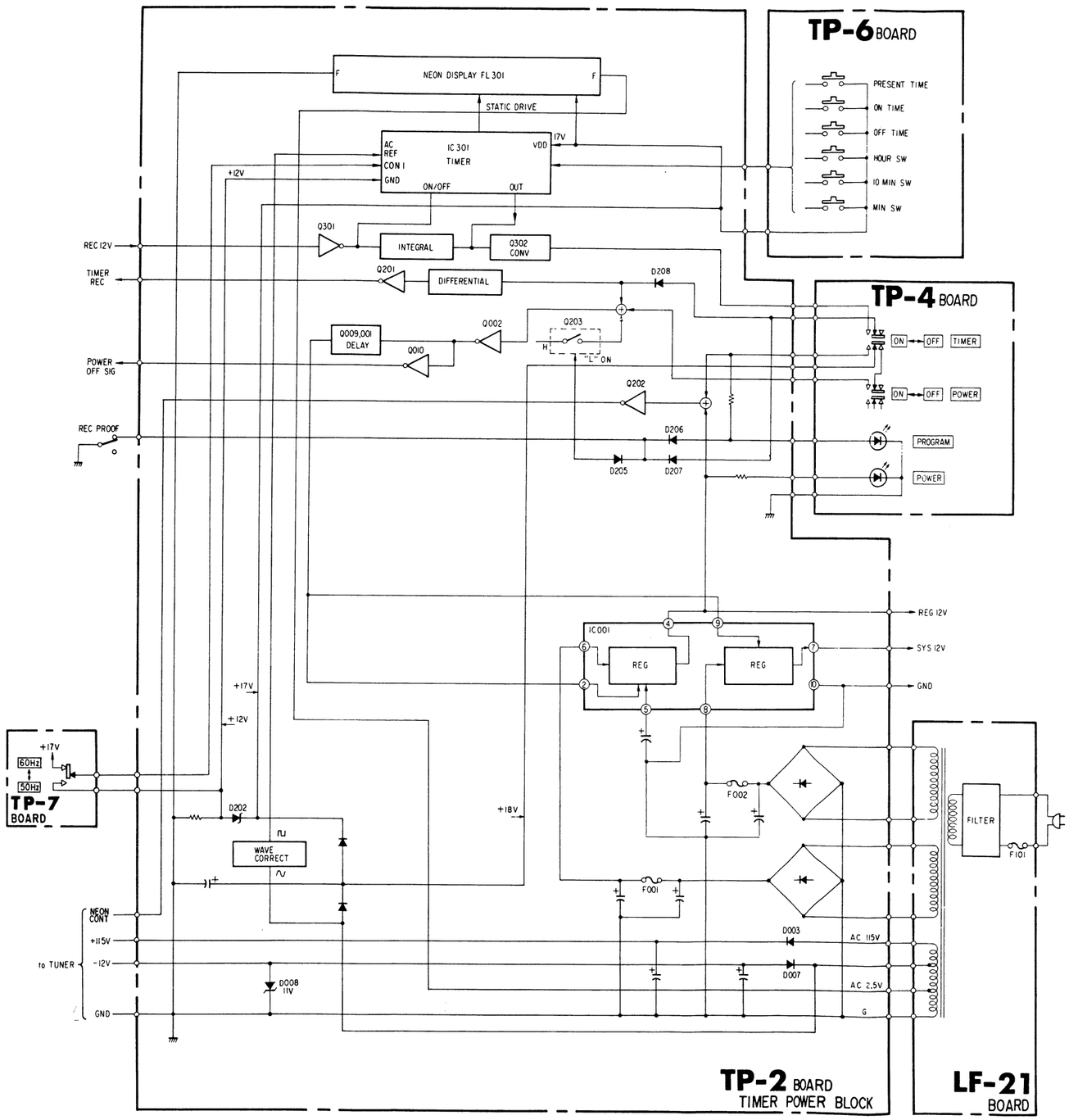


– PB MODE –

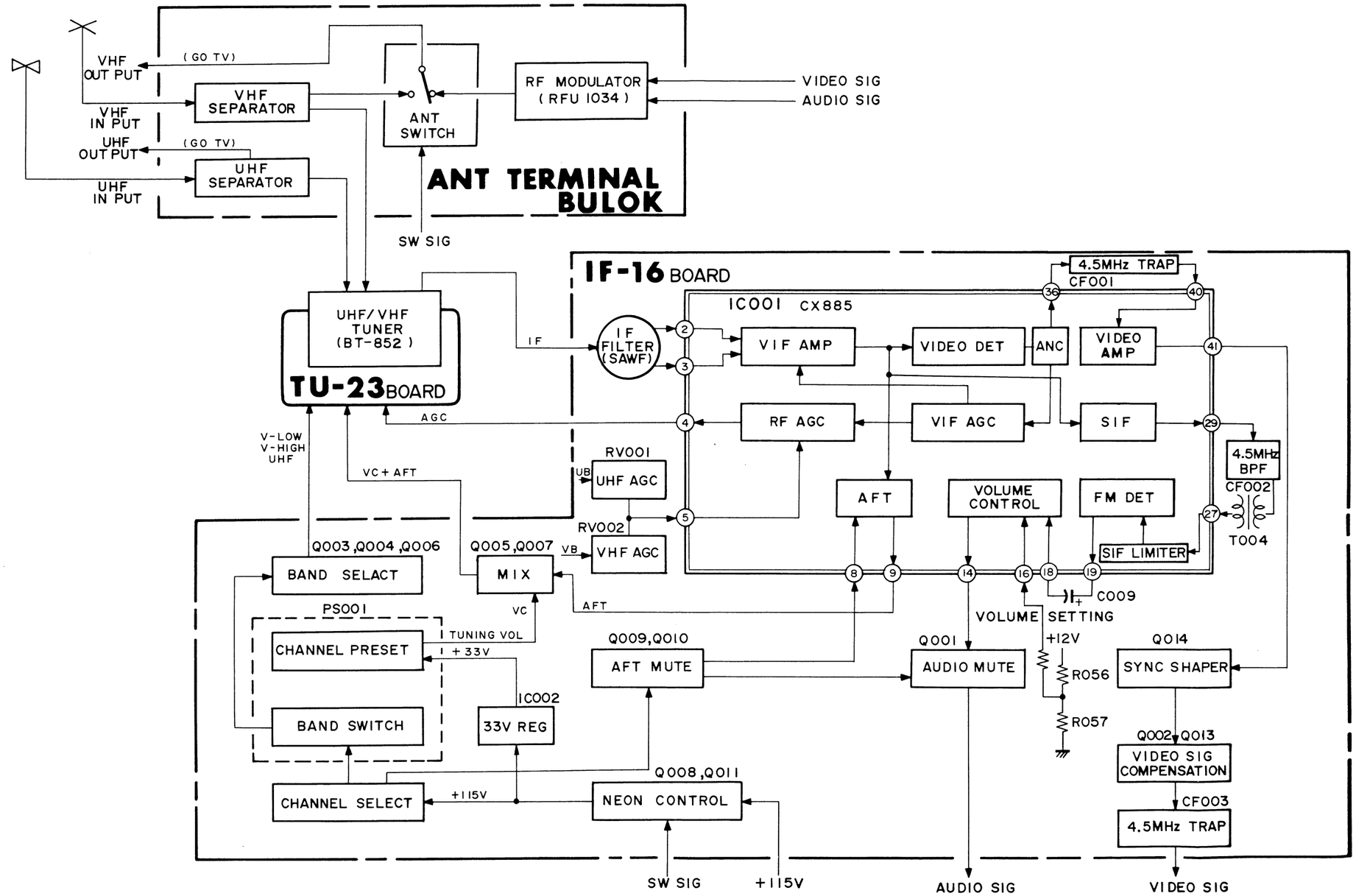
PB MODE



TIMER & POWER SUPPLY BLOCK DIAGRAM

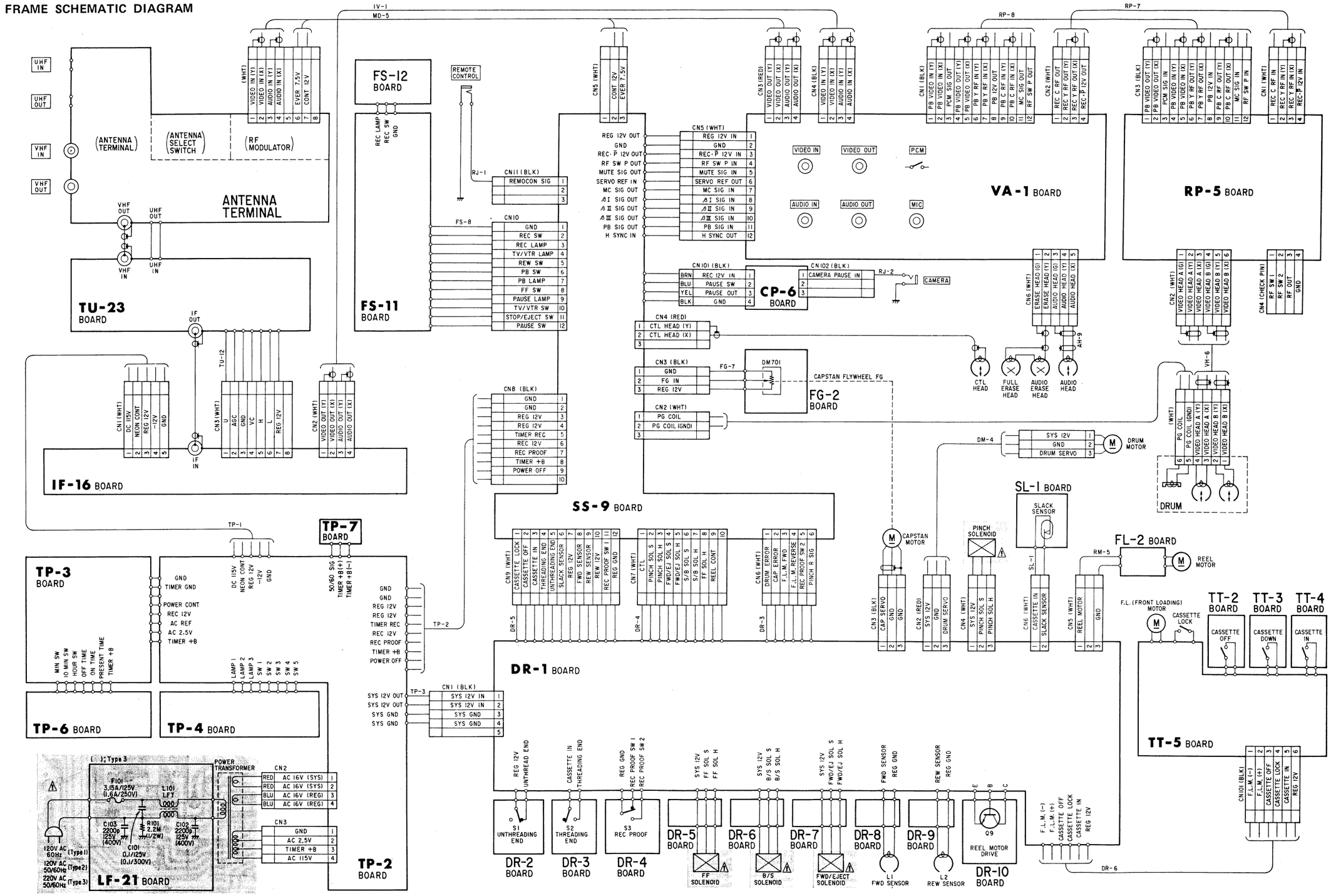


TUNER IF BLOCK DIAGRAM



SECTION 3
DIAGRAMS

FRAME SCHEMATIC DIAGRAM

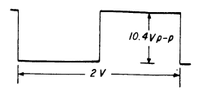
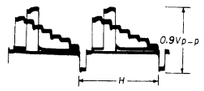
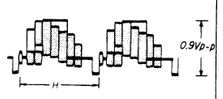
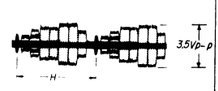
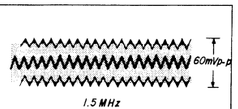
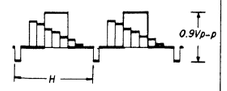
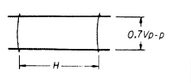
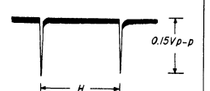
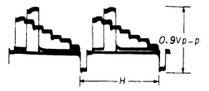
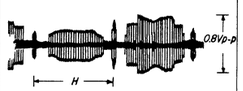
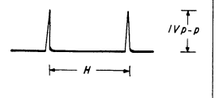
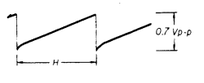
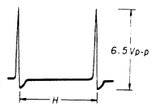
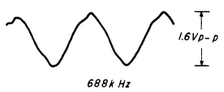
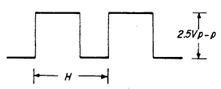
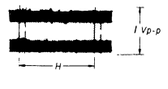
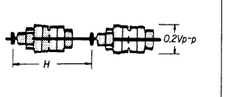
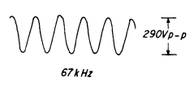
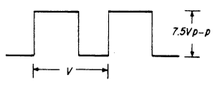
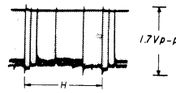
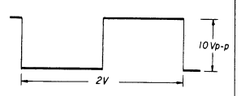
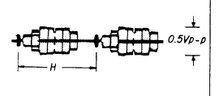
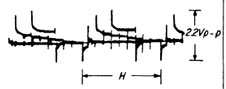
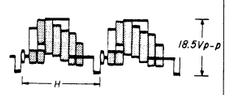
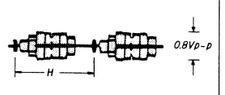
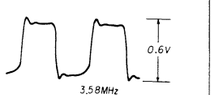
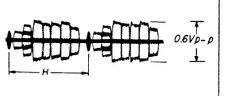
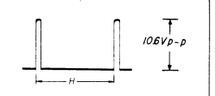
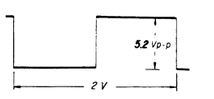
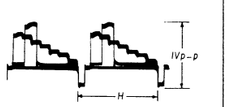
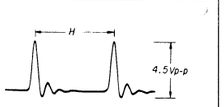
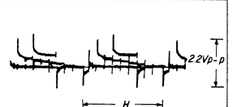
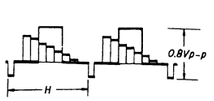
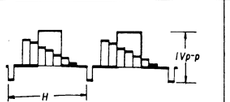
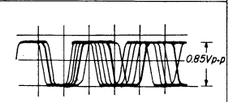


VA-1 BOARD WAVEFORM

The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

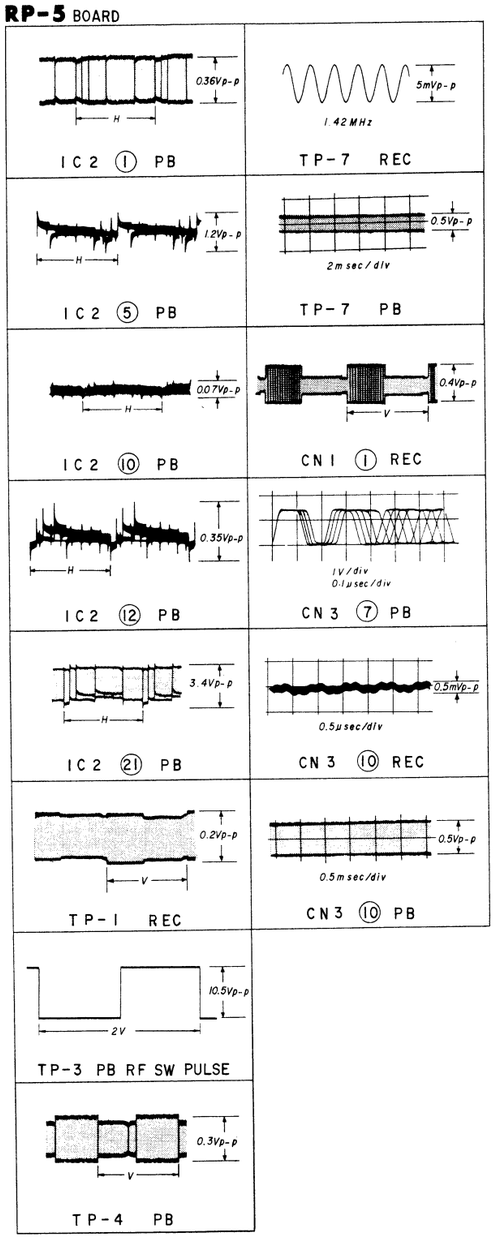
VA-1 BOARD

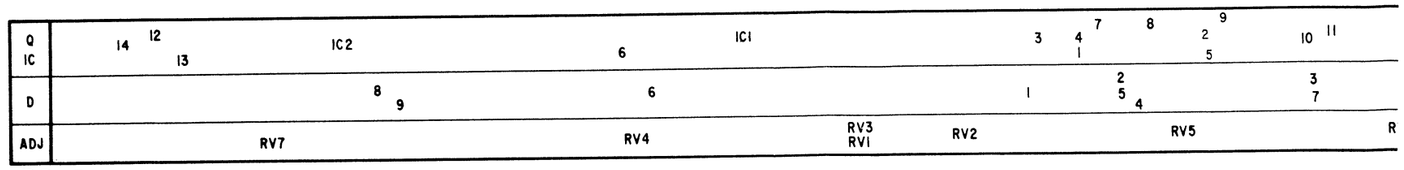
 IC1 ③ REC/PB RF SW PULSE	 IC5 ① PB	 IC5 ㉔ REC	 IC6 ㉔ PB	 TP-9 PB
IC1 ⑰ REC	 IC5 ② REC	 IC6 ① REC/PB 4.27MHz CARRIER	 TP-1 REC	TP-10 REC
IC1 ⑳ REC	 IC5 ② PB	 IC6 ③ PB	 TP-1 PB	TP-10 PB
 IC1 ㉑ REC	IC5 ④ REC/PB 	IC6 ⑤ PB	TP-2 REC	 TP-11 REC/PB
 IC2 ① REC	 IC5 ⑥ PB	 IC6 ⑥ REC	TP-2 PB	 CN6 ② REC
 IC2 ① PB	 IC5 ⑫ PB	 IC6 ⑧ REC	 TP-3 REC	
 IC3 ③ PB	 IC5 ⑯ REC	 IC6 ⑪ REC	 TP-3 PB	
IC3 ⑪ PB	IC5 ⑯ PB	 IC6 ⑪ PB	 TP-5 REC/PB	
 IC3 ⑫ PB	 IC5 ㉑ PB	 IC6 ⑯ REC/PB	 TP-6 REC	
 IC5 ① REC	 IC5 ㉒ REC	IC6 ㉔ REC	 TP-9 REC	

VA-1 (Y & CHROMA SIGNALS RECORD/PLAYBACK PROCESS, SERVO REFERENCE, SIGNAL GEN, HIGH SPEED GEN, AUDIO RECORD/PLAYBACK), RP-5 (DOWN-CONVERTED CHROMA & Y-FM SIGNALS, RECORD/PLAYBACK AMP) MOUNTING I

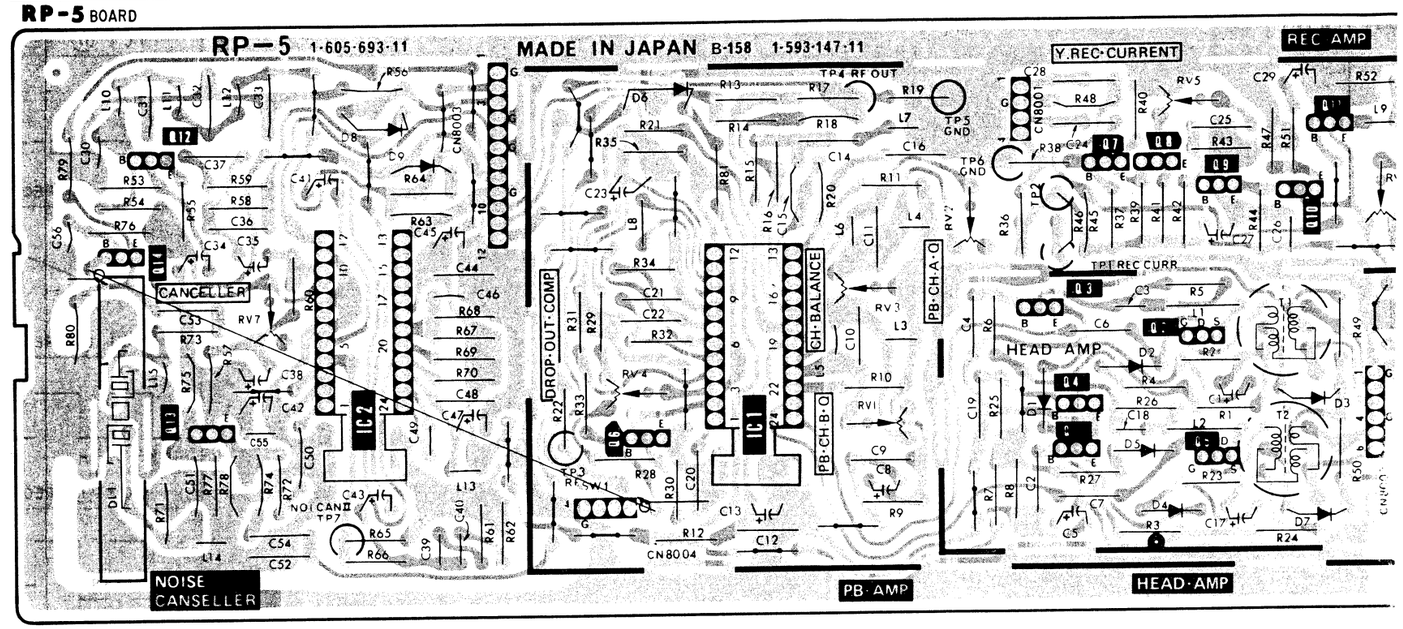
– Ref. No. VA-1 BOARD : 1000 series, RP-5 BOARD : 8000 series –

RP-5 BOARD



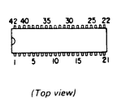


RP-5 BOARD

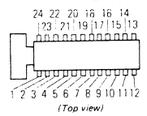


CX-134A CX187

BA5102

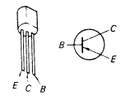


CX-134A CX187 CX135 CX188 CX822 CX196



M58478P

2SA733A



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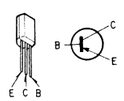

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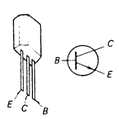

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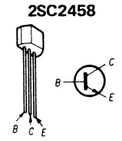

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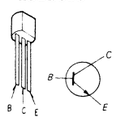

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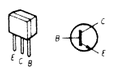
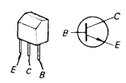
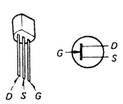


2SD774



2SK152-3



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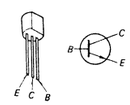

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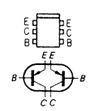
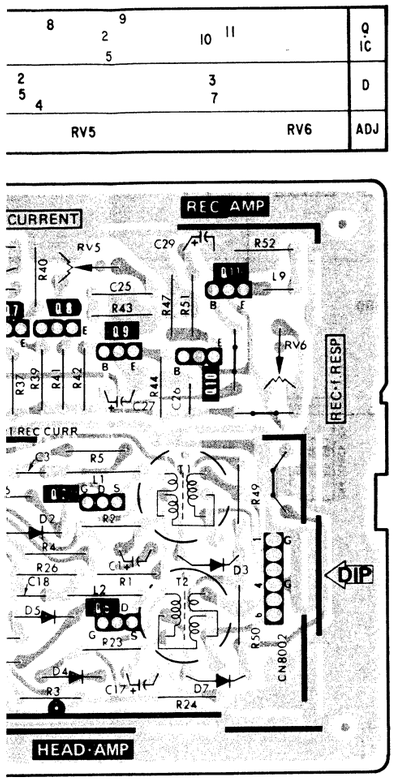
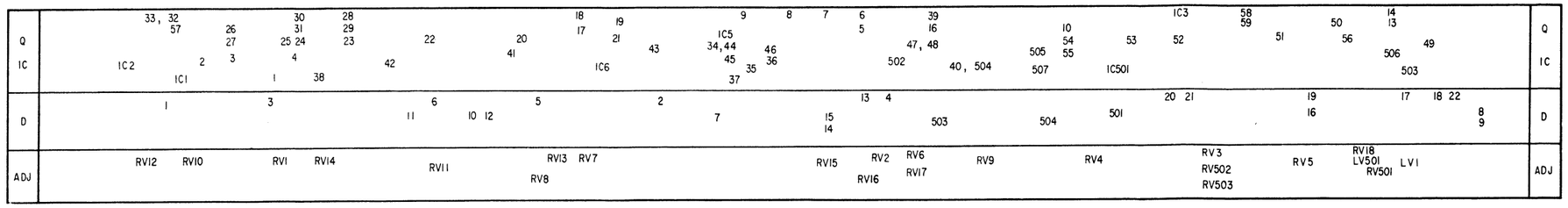


When indicating pa
ence number, ple
the board name.

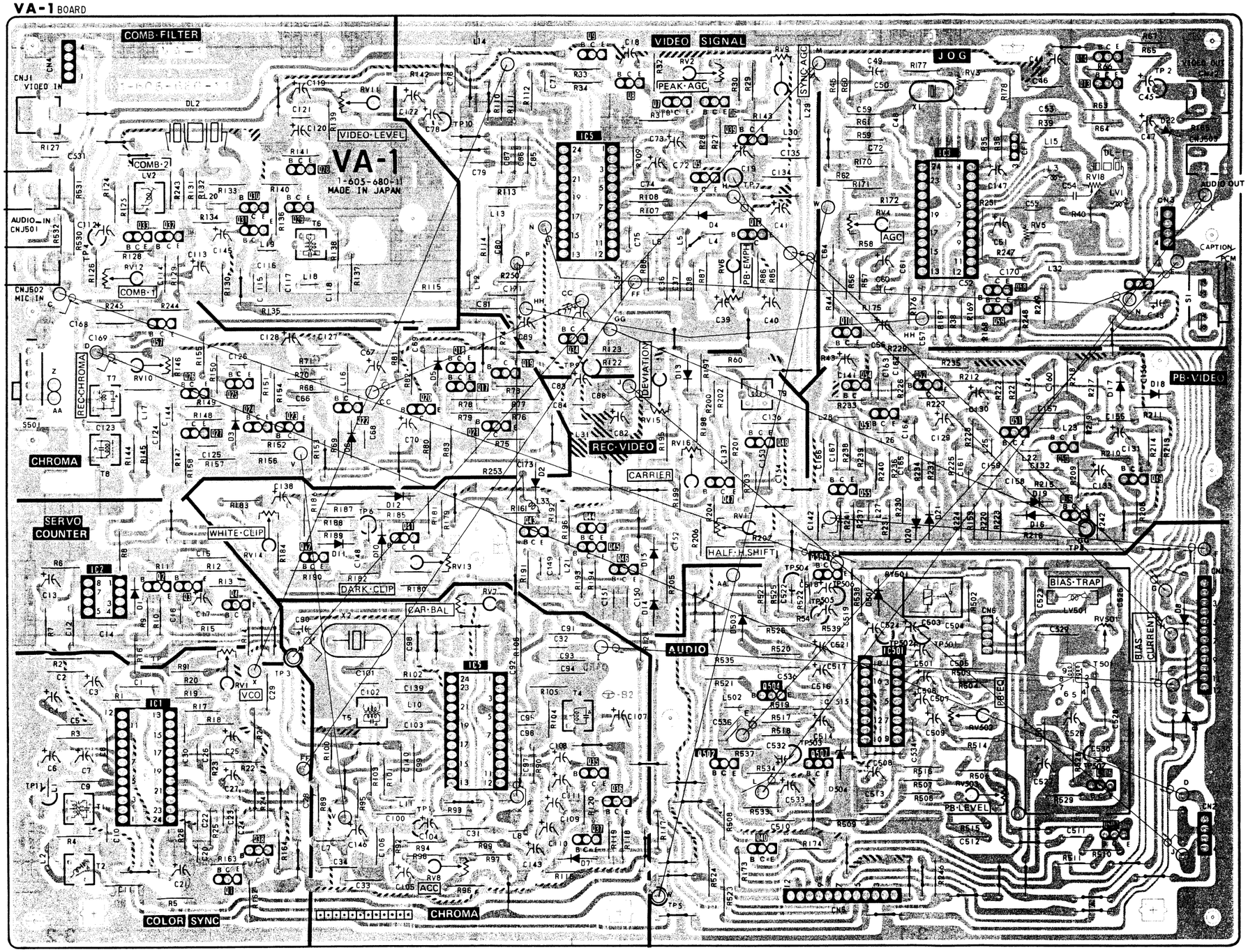
PLAYBACK AMP) MOUNTING DIAGRAMS



When indicating parts by reference number, please include the board name.

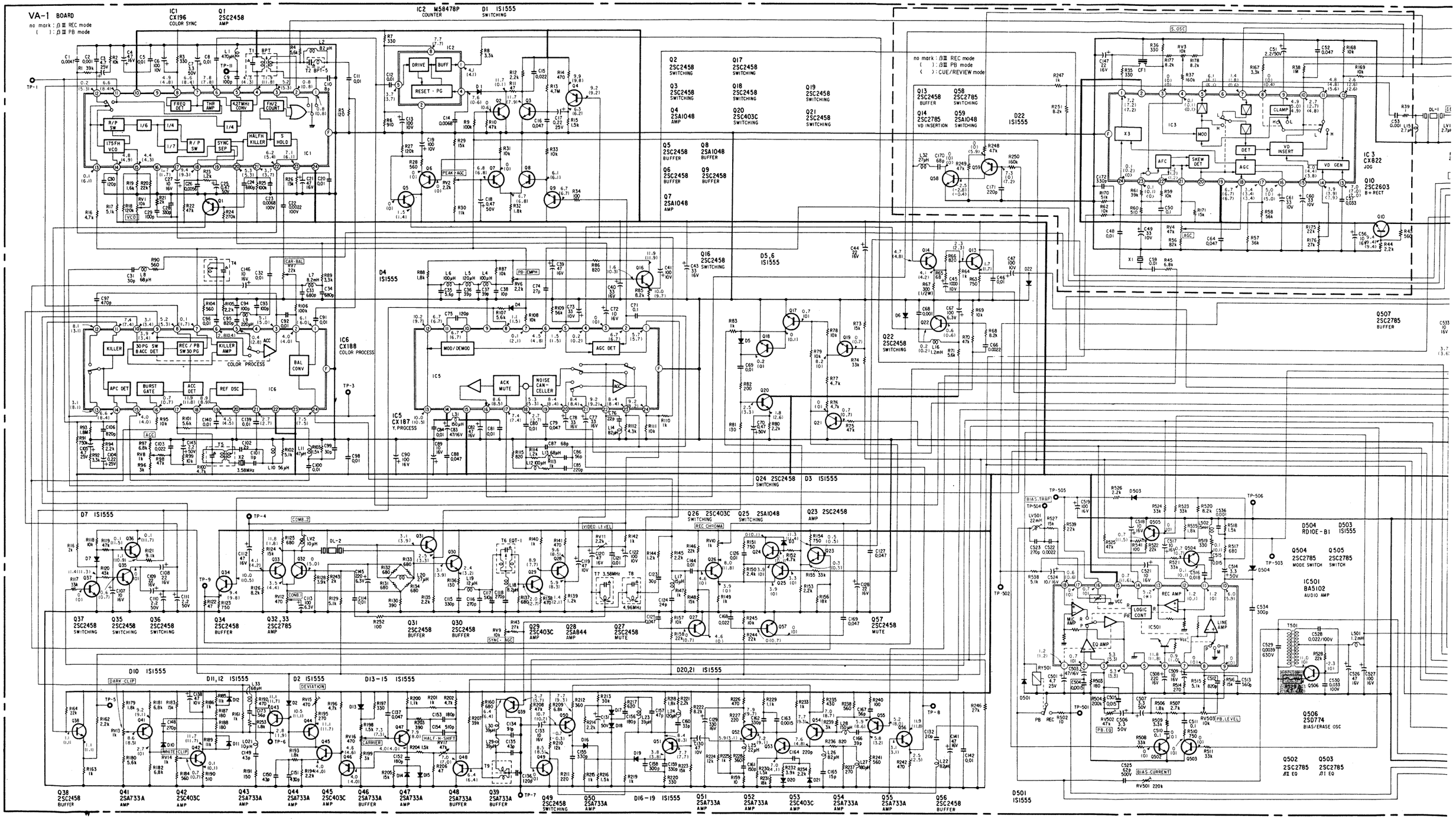


VA-1 BOARD

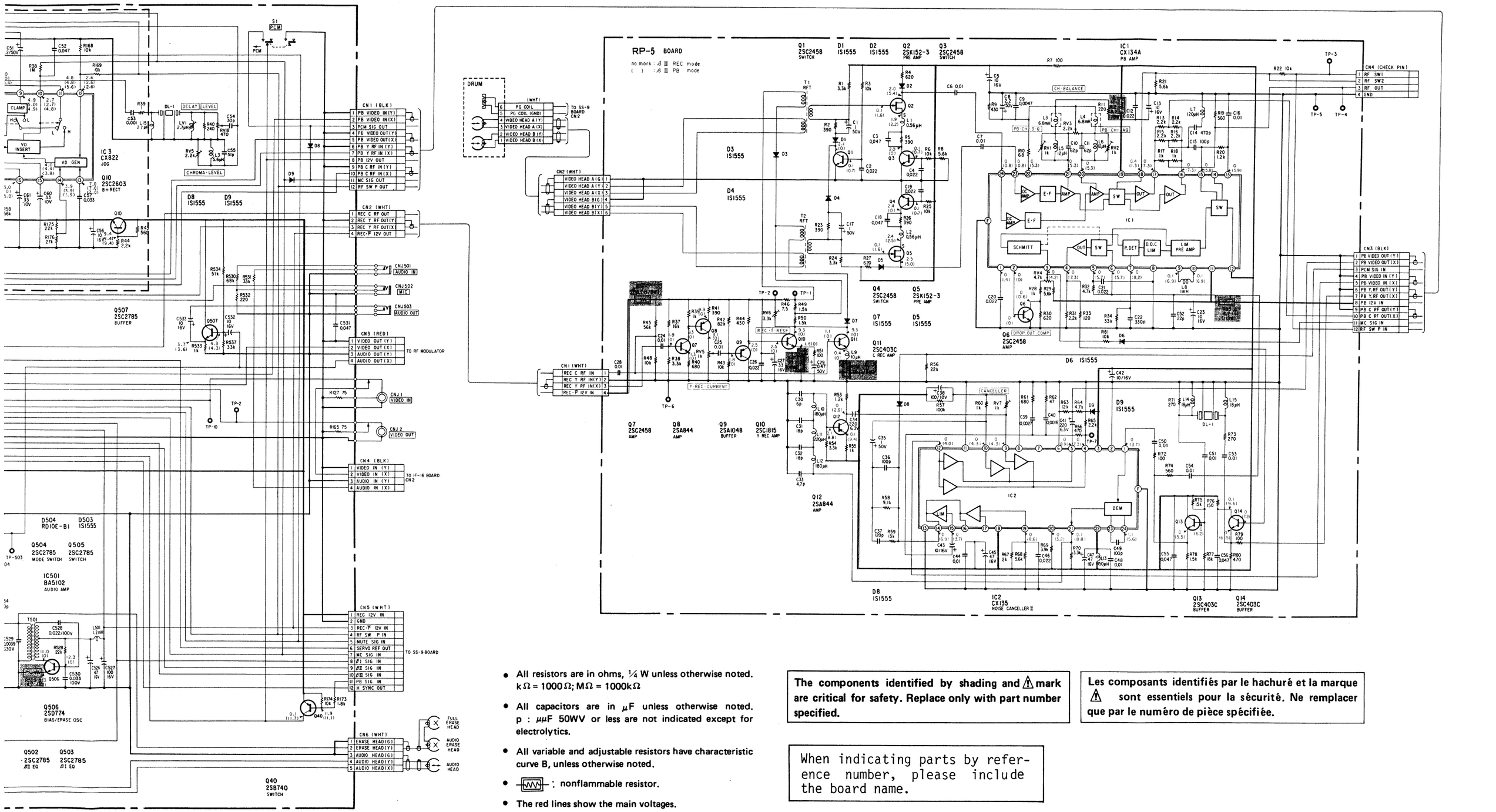


VA-1 (Y & CHROMA SIGNALS RECORD/PLAYBACK PROCESS, SERVO REFERENCE, SIGNAL GEN, HIGH SPEED GEN, AUDIO RECORD/PLAYBACK AMP), RP-5 (DOWN-CONVERTED CHROMA & Y-FM SIGNALS, RECORD/PLAYBACK AMP) BOARDS

– Ref. No. VA-1 BOARD : 1000 series, RP-5 BOARD : 8000 series –



RD/PLAYBACK AMP) BOARDS SCHEMATIC DIAGRAM



- All resistors are in ohms, ¼ W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000kΩ
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⏦ : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20kΩ/V).

The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

When indicating parts by reference number, please include the board name.

SS-9 (SERVO & SYSTEM CONTROL), FG-2 (CAPSTAN FLY FG), DR-1 (MOTOR & SOLENOID DRIVE), DR-2, DR-3, DR-4 (SWITCH), DR-5, DR-6, DR-7, DR-8, DR-9 (RELAY), DR-10 (MOTOR DRIVE), FS-11, FS-12 (CASSETTE CONTROL SWITCH), FL-2

– Ref. No. SS-9 BOARD : 2000 series, FG-2 BOARD : 7700 series, DR-1, DR-2, DR-3, DR-4, DR-5, DR-6, DR-7, DR-8, DR-9, DR-10 BOARD : 5000 series, FS-11 BOARD : 6000 series, FS-12 BOARD : 6100 series,
FL-2 BOARD : 7000 series, TT-2, TT-3, TT-4, TT-5 BOARD : 7100 series,
SL-1 BOARD : 7200 series, CP-6 BOARD : 9100 series –

SS-9 BOARD

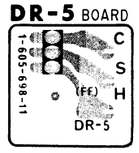
4Vp-p, 625Hz — IC1 (7) REC/PB	3.1Vp-p, V — IC3 (12) REC/PB	6Vp-p, 2V — TP-7 PB
7.2Vp-p, 625Hz — IC1 (9) REC/PB	6Vp-p, 2V — IC3 (16) REC	10.6Vp-p, H — TP-8 REC/PB
7Vp-p, 625Hz — IC1 (11) REC/PB	6Vp-p, 2V — IC3 (16) PB	7.6Vp-p, 400kHz — IC501 (1)
4.5Vp-p, 625Hz — IC1 (12) REC/PB	10.6Vp-p, 2V — IC3 (22) REC/PB	
11Vp-p, 625Hz — IC1 (13) REC/PB	7Vp-p, 2V — IC3 (24) REC/PB	
9Vp-p, 2V:PB 3V:REC — IC1 (20) REC/PB	11Vp-p, 2V — TP-1 REC/PB	
8Vp-p, 2V — IC3 (6) REC/PB	11Vp-p, 2V — TP-6 REC/PB	
9Vp-p, 2V — IC3 (7) REC/PB	11Vp-p, 40Hz — TP-7 REC	

DR-2 BOARD

DR-3 BOARD

DR-4 BOARD

DR-5 BOARD

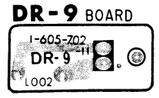


DR-6 BOARD

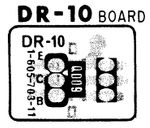
DR-7 BOARD

DR-8 BOARD

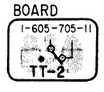
DR-9 BOARD



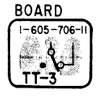
DR-10 BOARD



TT-2 BOARD

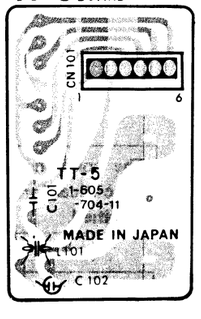


TT-3 BOARD

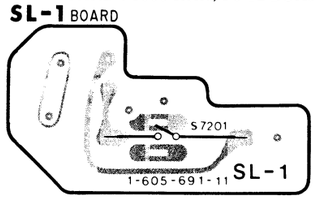


TT-4 BOARD

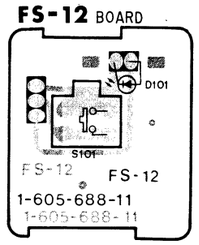
TT-5 BOARD



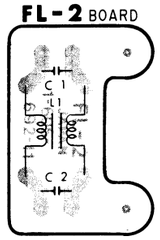
SL-1 BOARD



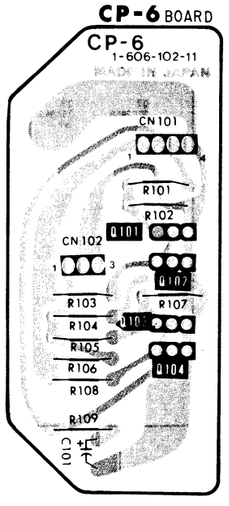
FS-12 BOARD



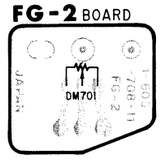
FL-2 BOARD



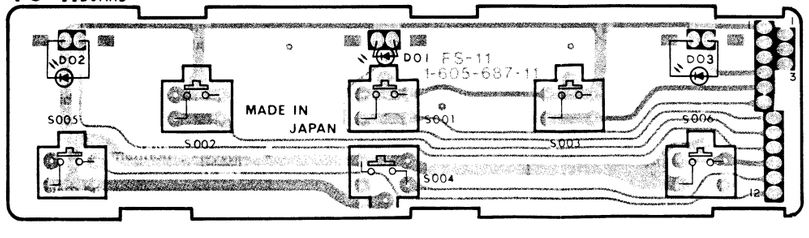
CP-6 BOARD



FG-2 BOARD



FS-11 BOARD

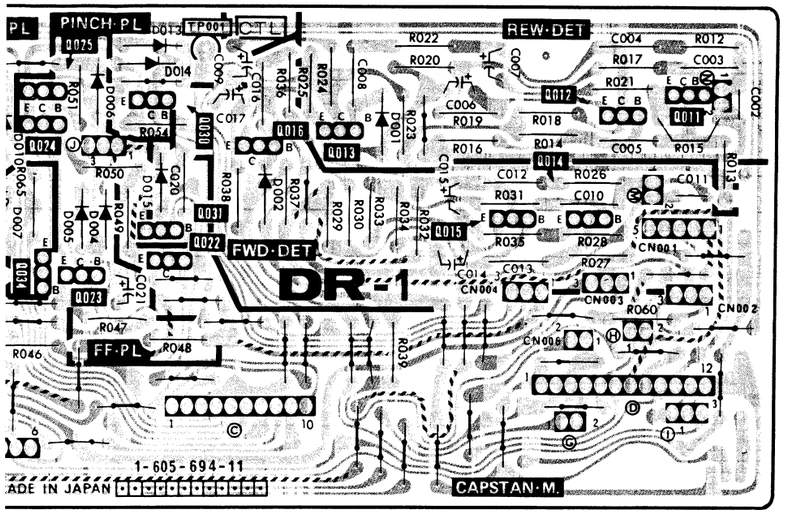


DR-1 BOARD

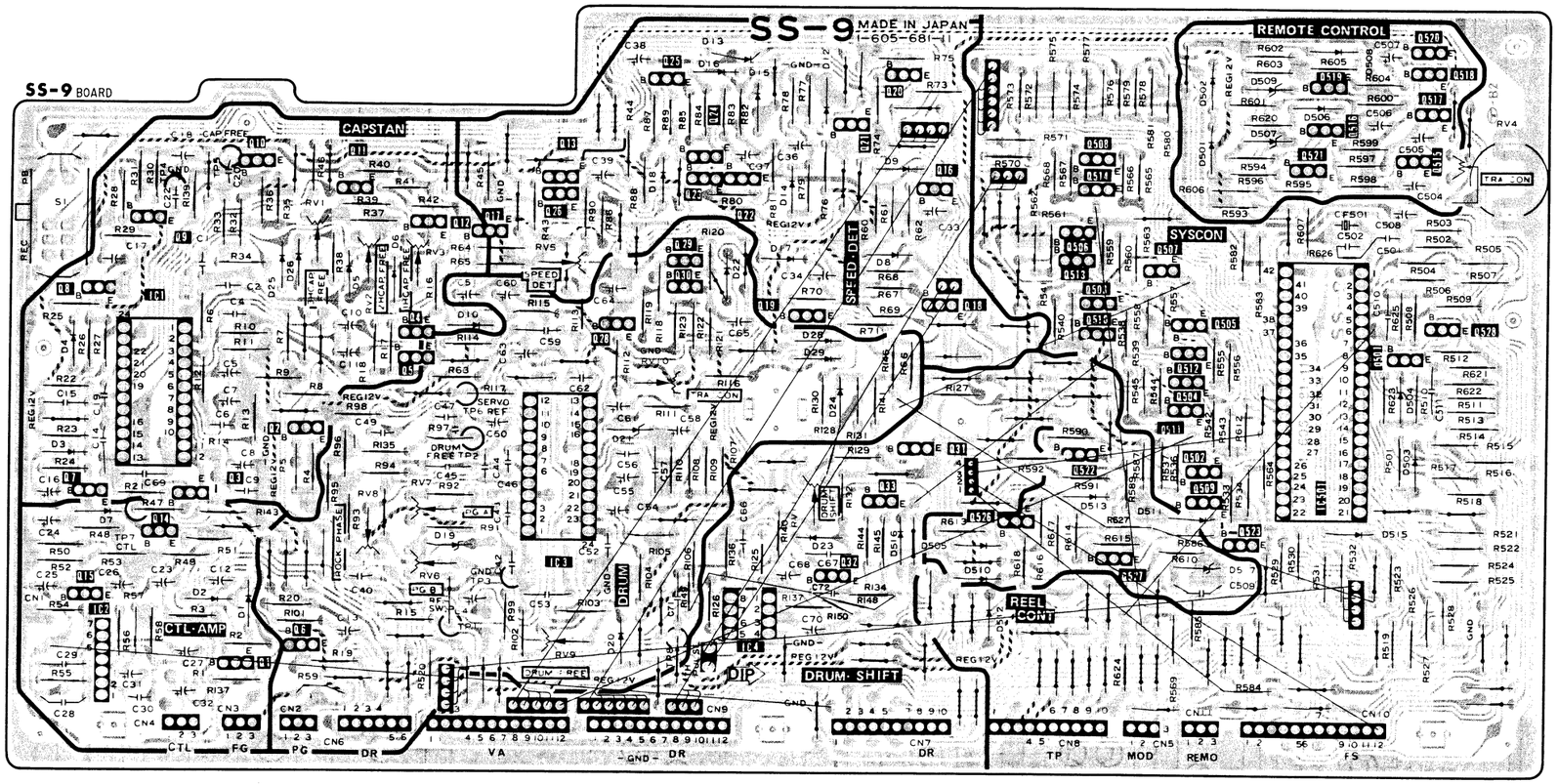
| | | |

:TTE CONTROL SWITCH), FL-2 (NOISE FILTER), TT-2, TT-3, TT-4, TT-5 (CASSETTE COMPARTMENT), SL-1 (SLACK SENSOR), CP-6 (CAMERA PLAY) MOUNTING DIAGRAMS

Q	025 024 034		023	030 031 022		016		013			015	014	012		011									Q
D	12 010 007		006 005, 004	013 014 015		002		001																D



Q	IC	8 7 15	9 IC1 IC2	3 14	10 1	2 6	11	4, 12 5	17	13 26 IC3	28	25 29, 23 30	24 22 IC4	19	21 32	20 33, 31	16 18	526	508, 514 522 506, 513 503, 510 527 511,	507 505 512 504, 502 509	521, 516, 519 IC501	501	520, 518 517, 515 528	523	Q IC
D		4 3	7	2	1	25, 26	5 6	19 10		21 20	18	16, 13, 15 22	14 17	12, 28 29 24 23	8 9 516		505 512		502 501 511 517	509 507	605 506 515	504 503			D
ADJ					RV1	RV2 RV8	RV3 RV7 RV6		RV9	RV5	RV10		RV11										RV4		ADJ



SS-9 BOARD

ΔII REC MODE

Q		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOLTAGE	B	0.7	0	2.1	0.1	0.5	4.9	0.5	-0.6	12.8	*	0.1	0.6	0.5	-0.2	0.4	11.1	11.3	0	11	0.7
	C	4.1	4.0	4.3	0.6	-0.2	7.8	2.7	7.2	7.4	GND	7.2	0	0.3	4.3	1.2	11.7	11.9	11.3	0	0.1
	E	GND	GND	3.1	GND	GND	4.3	GND	GND	11.9	*	GND	GND	GND	GND	0	11.8	11.9	GND	1.2	GND

Q		21	22	23	24	25	26	28	29	30	32	33	515	516	517	518	519	520	521	522	523
VOLTAGE	B	0.1	0.7	11.4	0.7	0.1	0.3	0	0	4.3	-0.1	0	0	0.7	0	0	0.7	0	0.7	0.7	0
	C	9.5	0	11.2	11.4	0.7	0.7	1.4	0.9	0	0	6.7	10.4	0	10.4	10.4	0	10.4	0	0	4.3
	E	GND	GND	11.9	6.1	GND	GND	GND	GND	0.9	0	0	GND	GND	GND	GND	GND	GND	GND	GND	GND

Q		526	527
VOLTAGE	B	11.9	0
	C	4.3	11.9
	E	11.9	GND

ΔII PB MODE

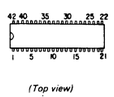
Q		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOLTAGE	B	0.7	0	0.1	0.1	0.5	4.9	0.5	-0.3	12.8	*	0.1	0.6	0.7	0.2	3.2	1.6	11.9	0	11.9	0.7
	C	0	4.0	6.4	0.5	-0.2	7.8	2.7	7.2	7.4	GND	7.2	0	0.1	6.4	8.1	0	6.4	11.9	0	0.1
	E	GND	GND	3.0	GND	GND	4.3	GND	GND	11.9	*	GND	GND	GND	GND	2.6	0.3	11.9	GND	11.8	GND

Q		21	22	23	24	25	26	28	29	30	32	33	515	516	517	518	519	520	521	522	523
VOLTAGE	B	0.1	0.7	11.4	4.1	0.2	0.1	0	0	4.3	-0.1	0	0	0.7	0	0	0.7	0	0.7	0.7	0
	C	9.5	0	8.9	11.4	4.1	4.1	1.4	0.9	0	0	7.0	10.4	0	10.4	10.4	0	10.4	0	0	4.3
	E	GND	GND	11.9	6.1	GND	GND	GND	GND	0.9	0	0	GND	GND	GND	GND	GND	GND	GND	GND	GND

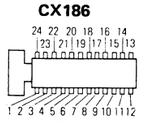
Q		526	527
VOLTAGE	B	11.9	0
	C	4.3	11.9
	E	12.0	GND

μPC4556C

μPD553C149

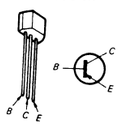


CX143A
CX186

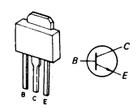


TA7120P

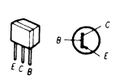
2SA1048



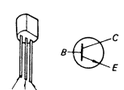
2SD1164



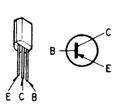
2SA1175



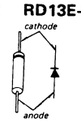
2SD788



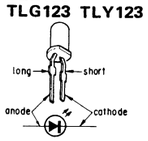
2SB740



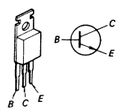
1S1555 RD5.6E-BZ
1S2473 RD6.2E-B
1SS119 RD7.5E-BIZ
10E-2 RD13E-B2Z



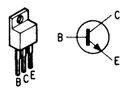
TLR123
TLG123 TLY123



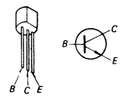
2SC1061



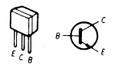
2SC2315



2SC2603



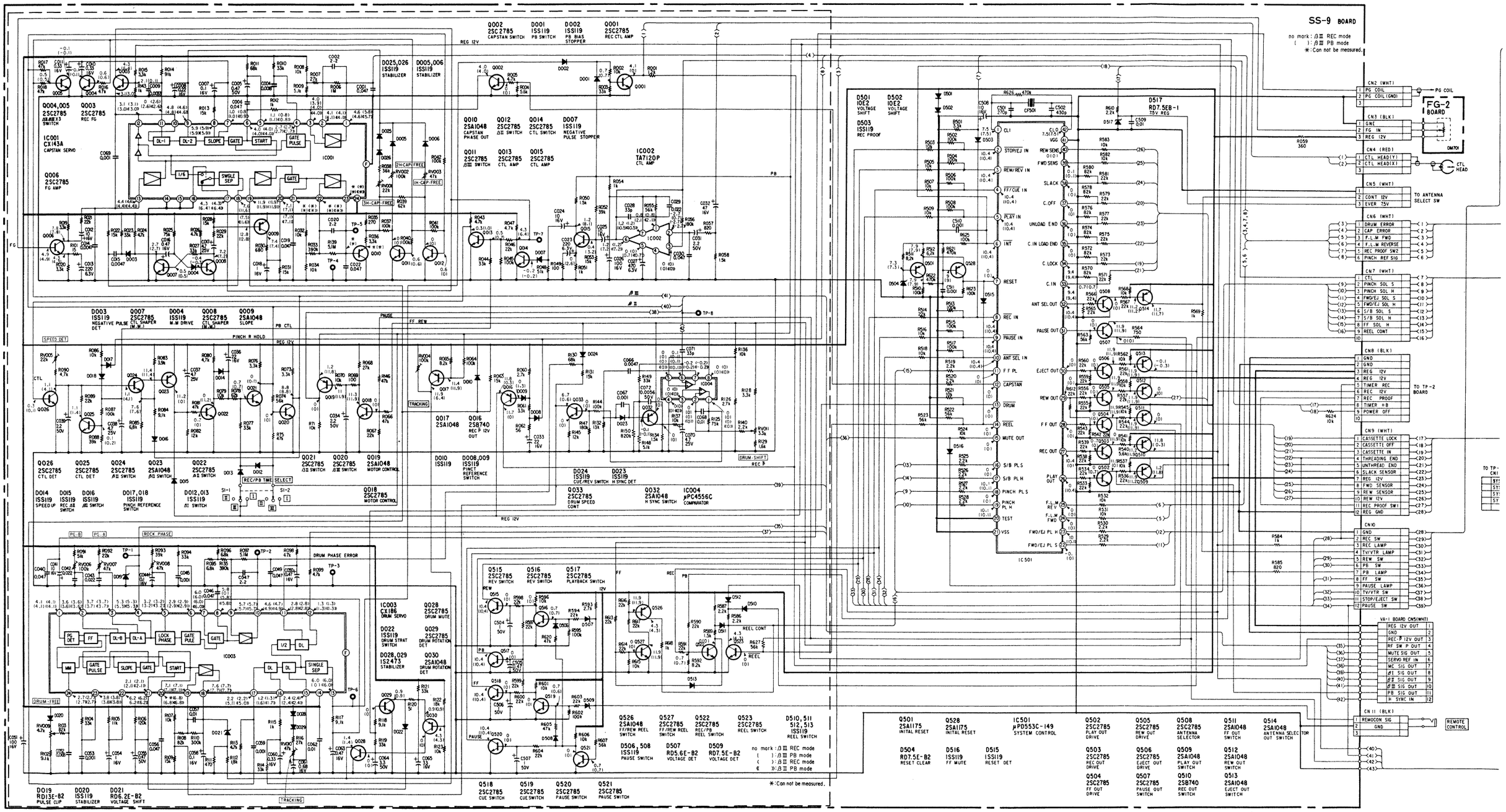
2SC2785



- All resistors are in ohms, ¼ W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000kΩ
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20kΩ/V).

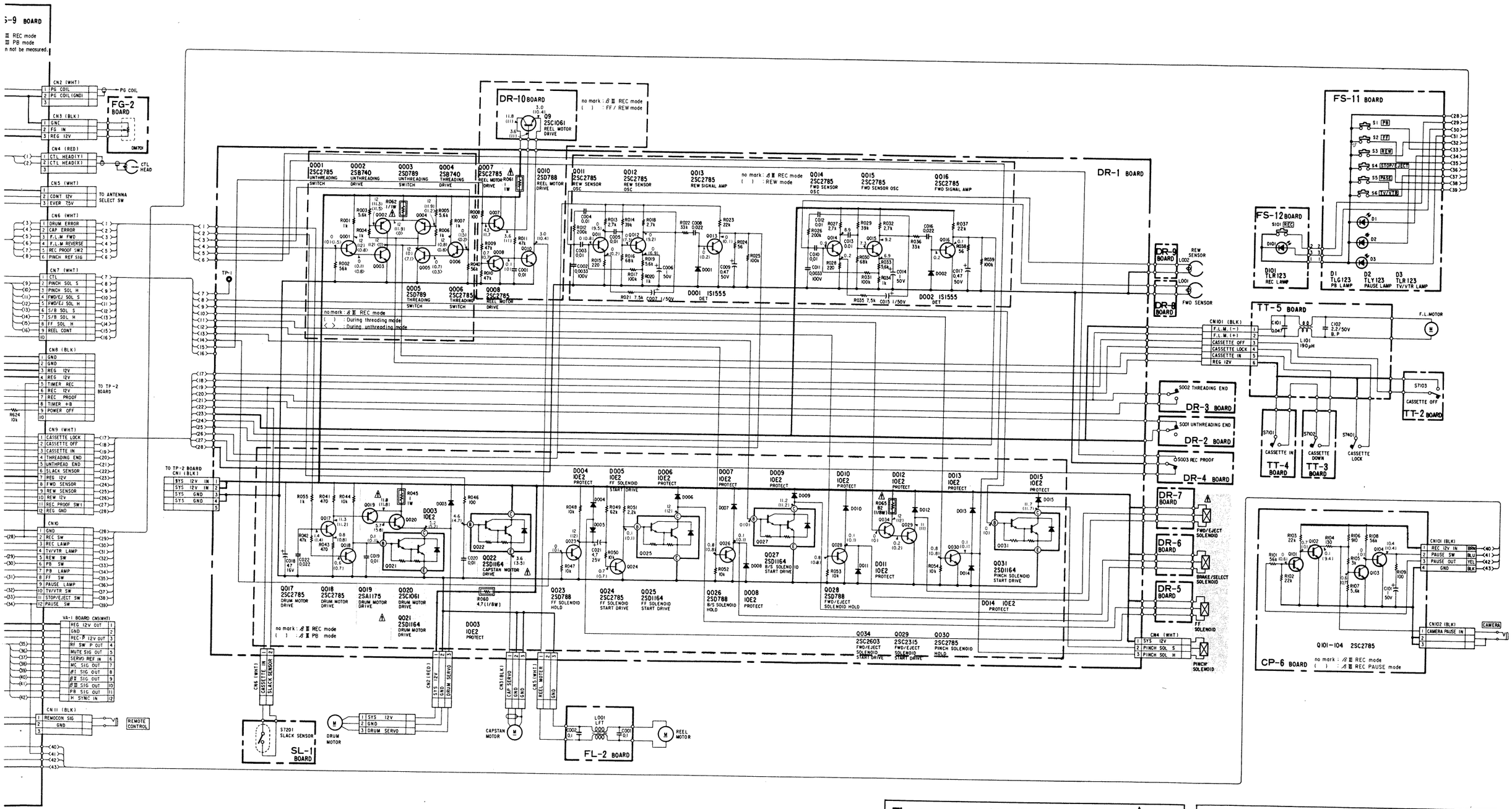
When indicating parts by reference number, please include the board name.

SS-9 (SERVO & SYSTEM CONTROL), FG-2 (CAPSTAN FLY FG), DR-1 (MOTOR & SOLENOID DRIVE), DR-2, DR-3, DR-4 (SWITCH), DR-5, DR-6, DR-7, DR-8, DR-9 (RELAY), DR-10 (MOTOR DRIVE), FS-11, FS-12 (CASSETTE CONTROL SWITCH), FL-2
– Ref. No. SS-9 BOARD : 2000 series, FG-2 BOARD : 7700 series, DR-1, DR-2, DR-3, DR-4, DR-5, DR-6, DR-7, DR-8, DR-9, DR-10 BOARD : 5000 series, FS-11 BOARD : 6000 series, FS-12 BOARD : 6100 series, FL-2 BOARD : 7000 series, TT-2, TT-3, TT-4, TT-5 BOARD : 7100 series, SL-1 BOARD : 7200 series, CP-



TE CONTROL SWITCH), FL-2 (NOISE FILTER), TT-2, TT-3, TT-4, TT-5 (CASSETTE COMPARTMENT), SL-1 (SLACK SENSOR), CP-6 (CAMERA PLAY) BOARDS SCHEMATIC DIAGRAM

0 series, SL-1 BOARD : 7200 series, CP-6 BOARD : 9100 series –



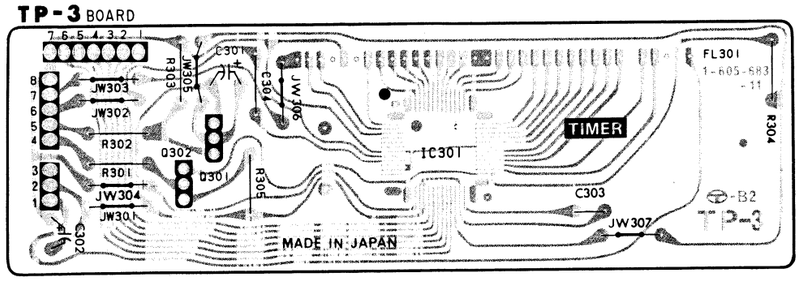
The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

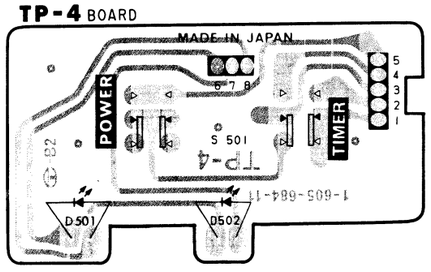
LF-21 (LINE FILTER), TP-2 (POWER SUPPLY), TP-3 (TIMER CONTROL), TP-4 (TIMER & POWER SWITCH), TP-6 (TIMER PRESET) MOUNTING DIAGRAMS

– Ref. No. LF-21, TP-2, TP-3, TP-4, TP-6 BOARD : 4000 series –

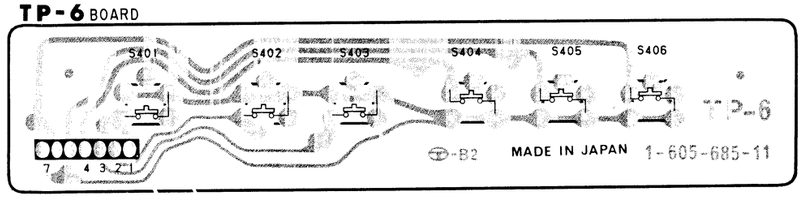
TP-3 BOARD



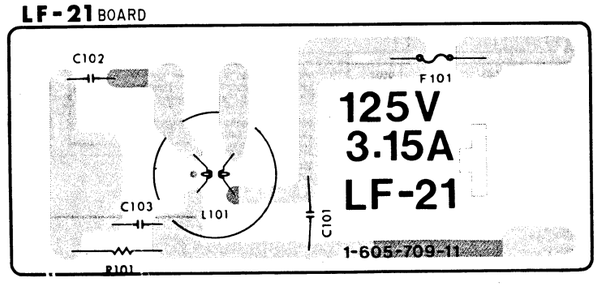
TP-4 BOARD



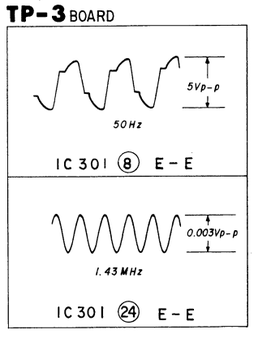
TP-6 BOARD



LF-21 BOARD

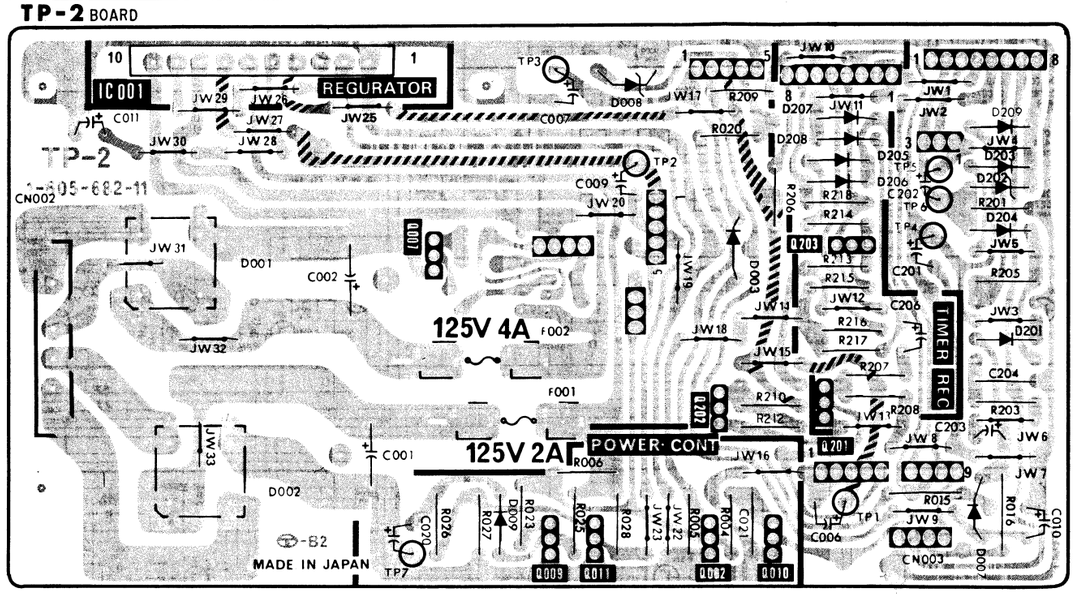


TP-3 BOARD

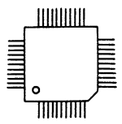


Q IC	IC001	009 011	202 002	010	203 201		Q IC
D	001 002	009	008 003		207, 208 205, 206	209, 203 204, 202 007 201	D

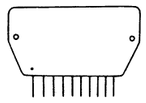
TP-2 BOARD



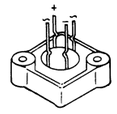
LR3419



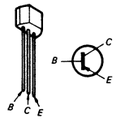
STK-5314



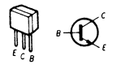
M4B31-13



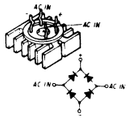
2SA1048



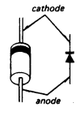
2SC2458



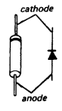
M4B41-13



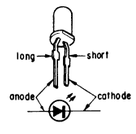
1N4005



1S1555 RD5.1E-BZ
10E-1 RD11E-BZ



TLG123
TLR123



- All resistors are in ohms, ¼ W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000kΩ
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ▭ : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20kΩ/V).

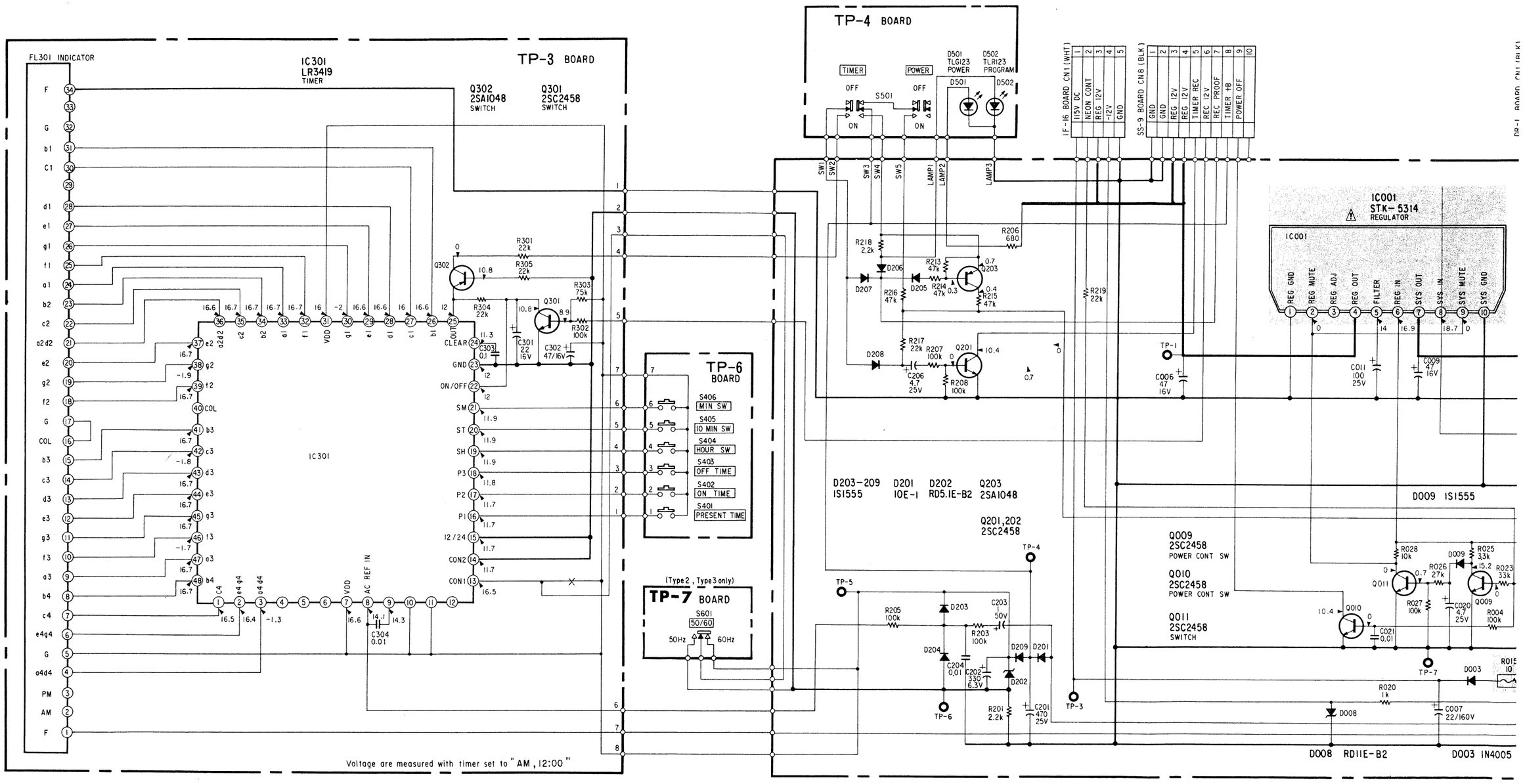
The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

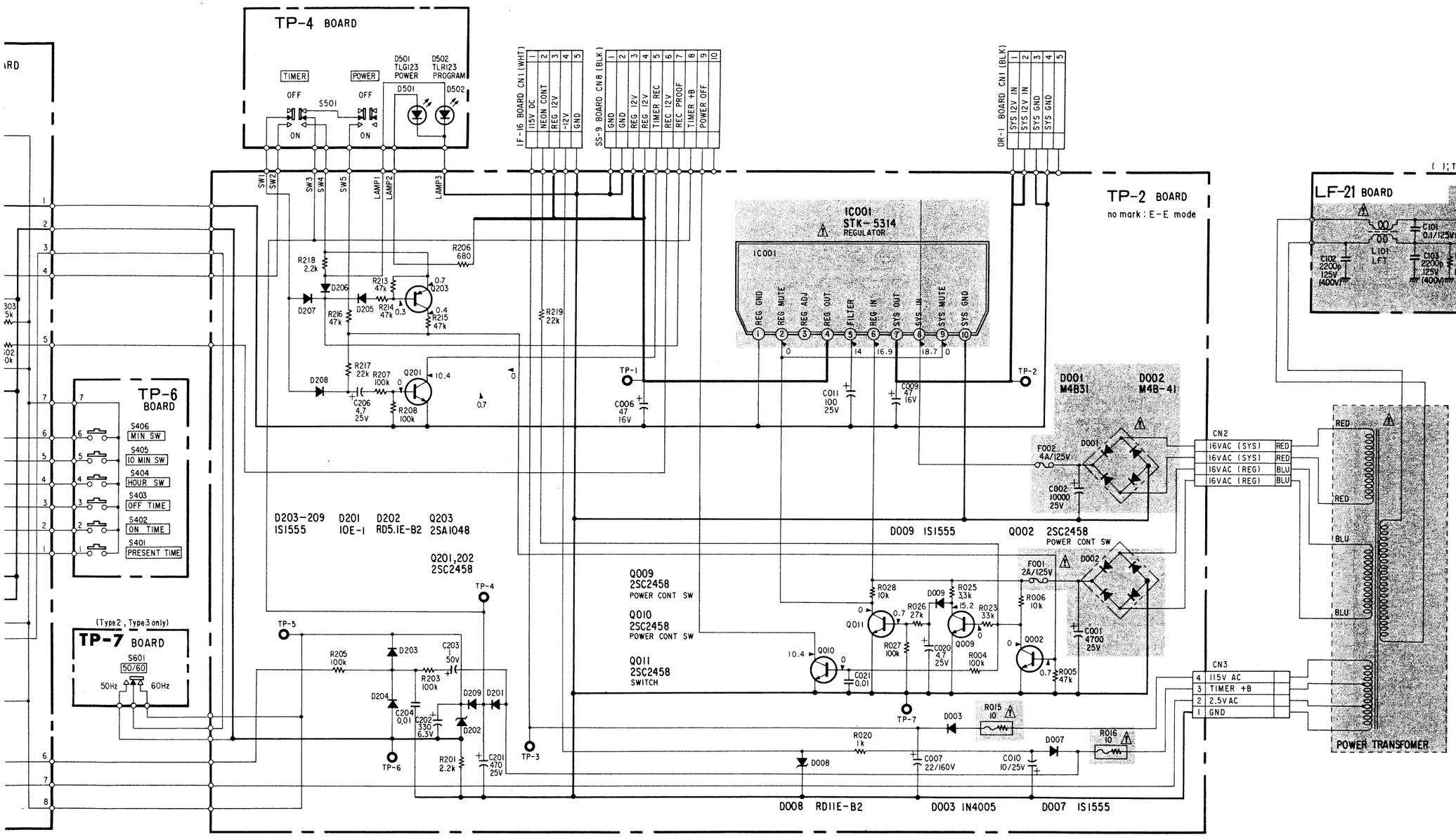
When indicating parts by reference number, please include the board name.

LF-21 (LINE FILTER), TP-2 (POWER SUPPLY), TP-3 (TIMER CONTROL), TP-4 (TIMER & POWER SWITCH), TP-6 (TIMER PRESET) BOARDS SCHEMATIC DIAGRAM

– Ref. No. LF-21, TP-2, TP-3, TP-4, TP-6 BOARD : 4000 series –



ITCH), TP-6 (TIMER PRESET) BOARDS SCHEMATIC DIAGRAM

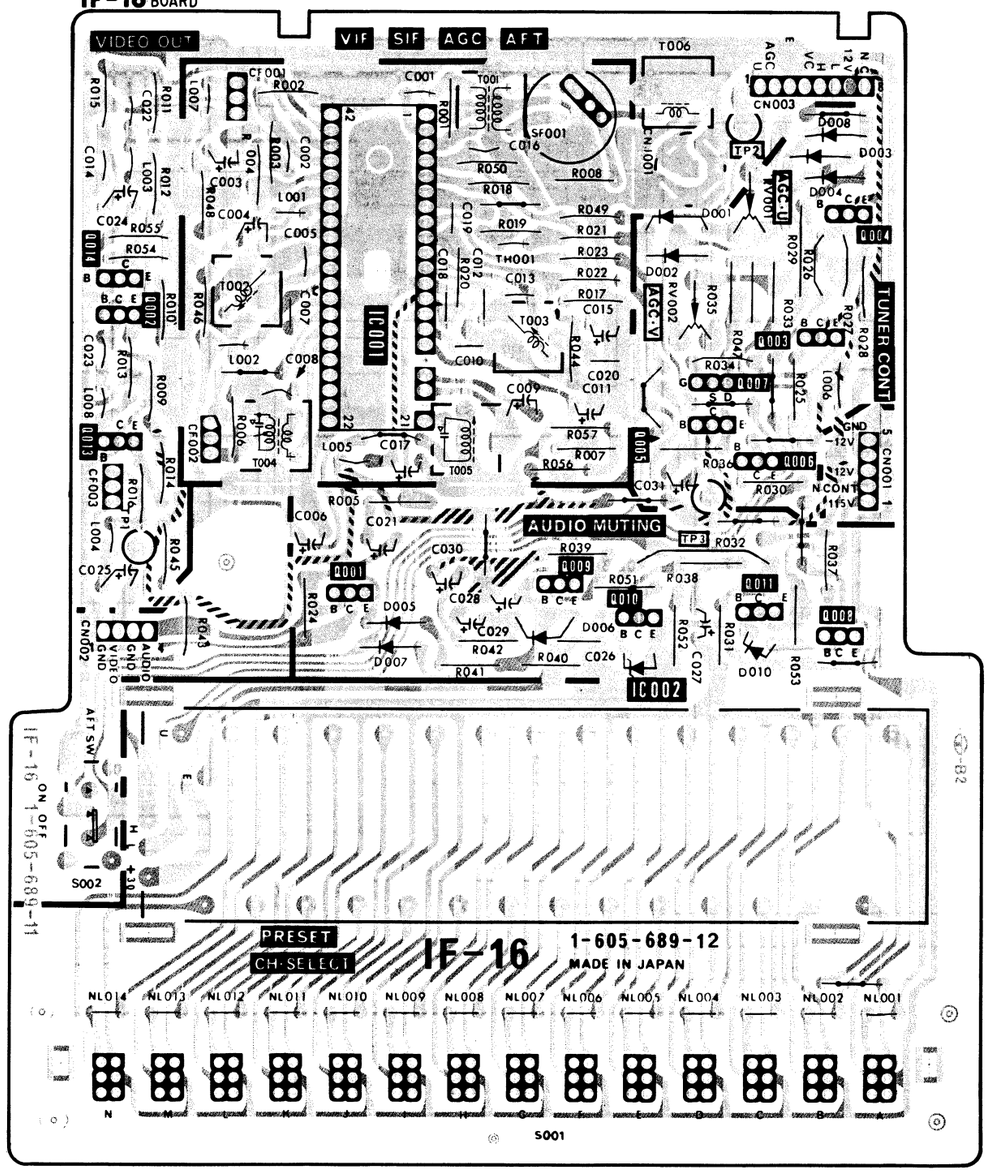


IF-16 (VIF, SIF, AFT, AGC BAND SELECTOR), TU-23 (TUNER) MOUNTING DIAGRAMS

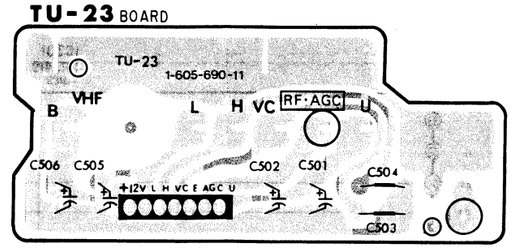
– Ref. No. IF-16 BOARD : 3000 series, TU-23 BOARD : 3500 series –

Q IC	014 002 013		IC001 001		009	010	IC002	007 005	006 011	004 003 008	Q IC
D		005 007		006		001 002	010			008 003 004	D
ADJ							RV002	RV001			ADJ

IF-16 BOARD

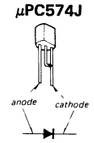


TU-23 BOARD

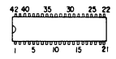


When indicating parts by reference number, please include the board name.

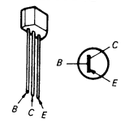
μPC574J



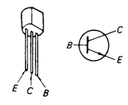
CX885



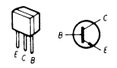
2SA1048



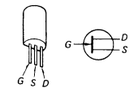
2SC1890A



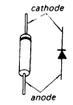
2SC2785



2SK43-2



1S1555
10E-2



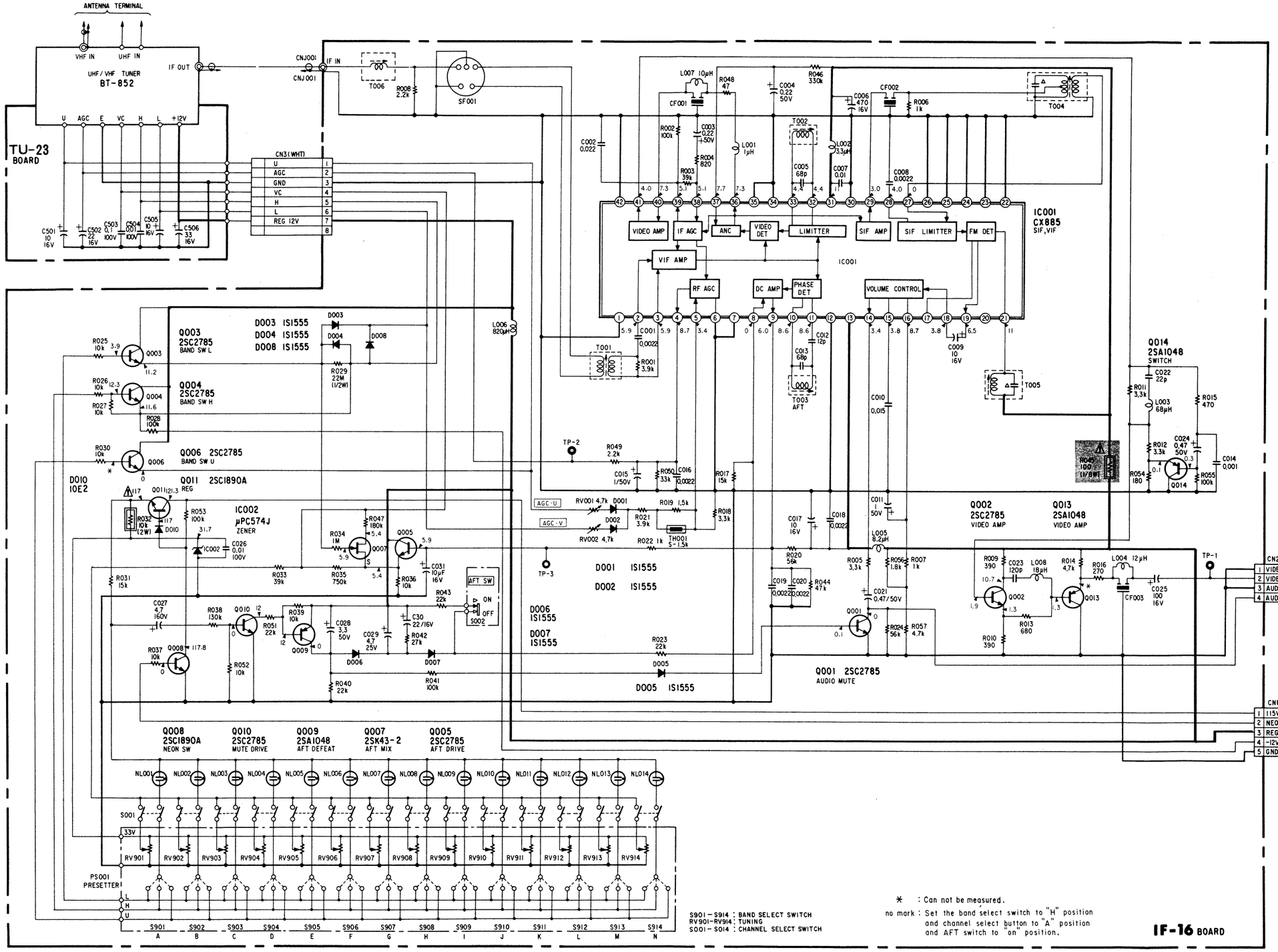
- All resistors are in ohms, ¼ W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000kΩ
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20kΩ/V).

The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

IF-16 (VIF, SIF, AFT, AGC BAND SELECTOR), TU-23 (TUNER) BOARDS SCHEMATIC DIAGRAM

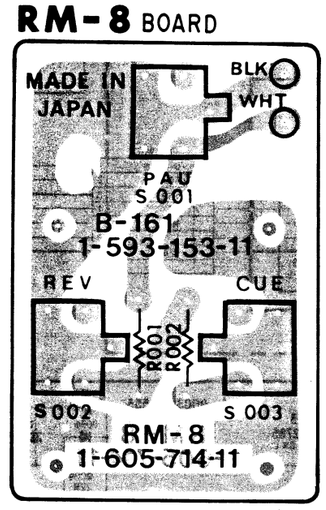
– Ref. No. IF-16 BOARD : 3000 series, TU-23 BOARD : 3500 series –



REMOTE CONTROL UNIT

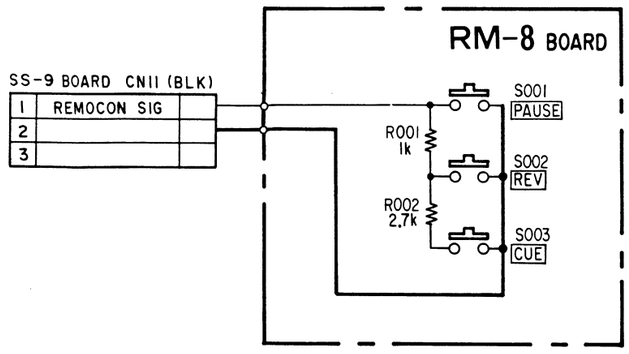
RM-8 (REMOTE CONTROL) MOUNTING DIAGRAM

– Ref. No. RM-8 BOARD : 9000 series –



RM-8 (REMOTE CONTROL) BOARD SCHEMATIC DIAGRAM

– Ref. No. RM-8 BOARD : 9000 series –



- All resistors are in ohms, ¼ W unless otherwise noted. kΩ = 1000Ω; MΩ = 1000kΩ
- All capacitors are in μF unless otherwise noted. p : μμF 50WV or less are not indicated except for electrolytics.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : nonflammable resistor.
- The red lines show the main voltages.
- All voltages are dc measured with a VOM (20kΩ/V).

When indicating parts by reference number, please include the board name.

SECTION 4
EXPLODED VIEWS

Note:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- As to the part numbered with E-, refer to the electrical parts list.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

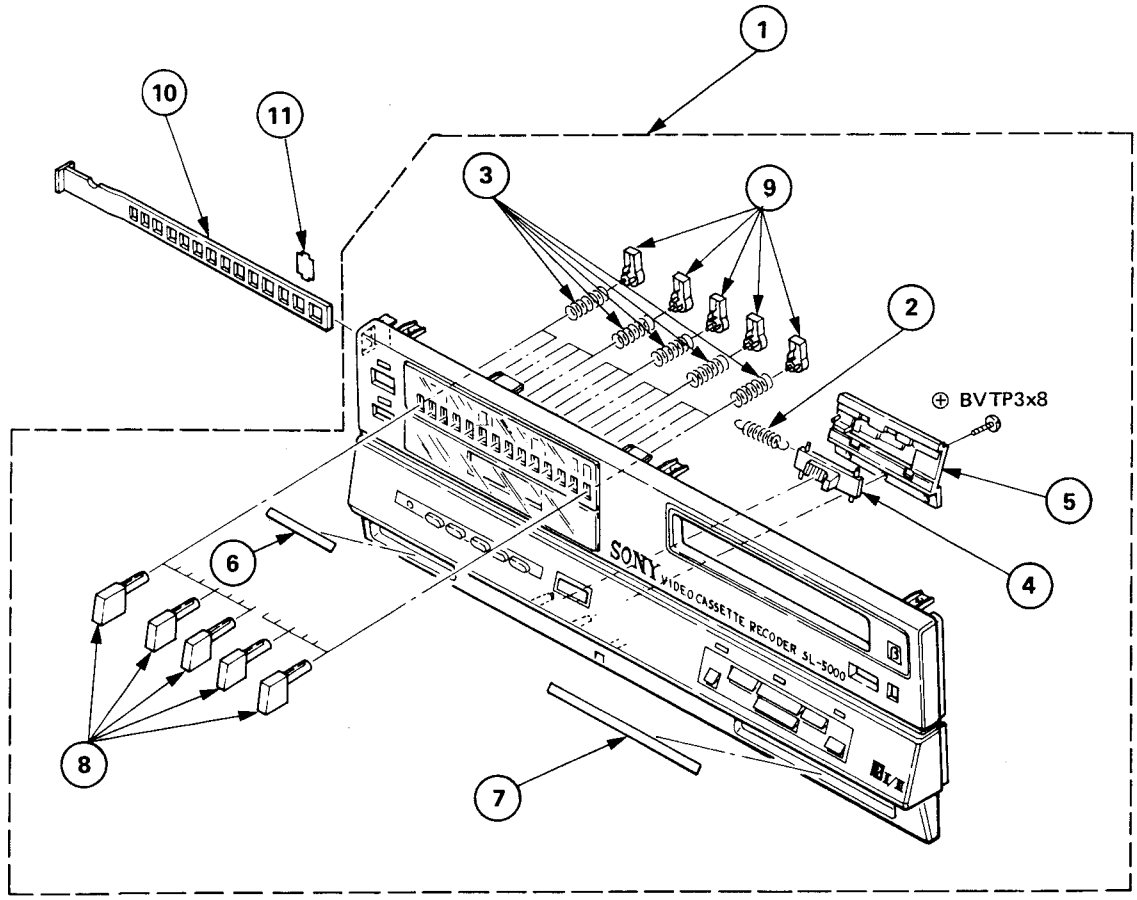
The components identified by shading and ⚠ mark are critical for safety. Replace only with part number specified.

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

A B C D

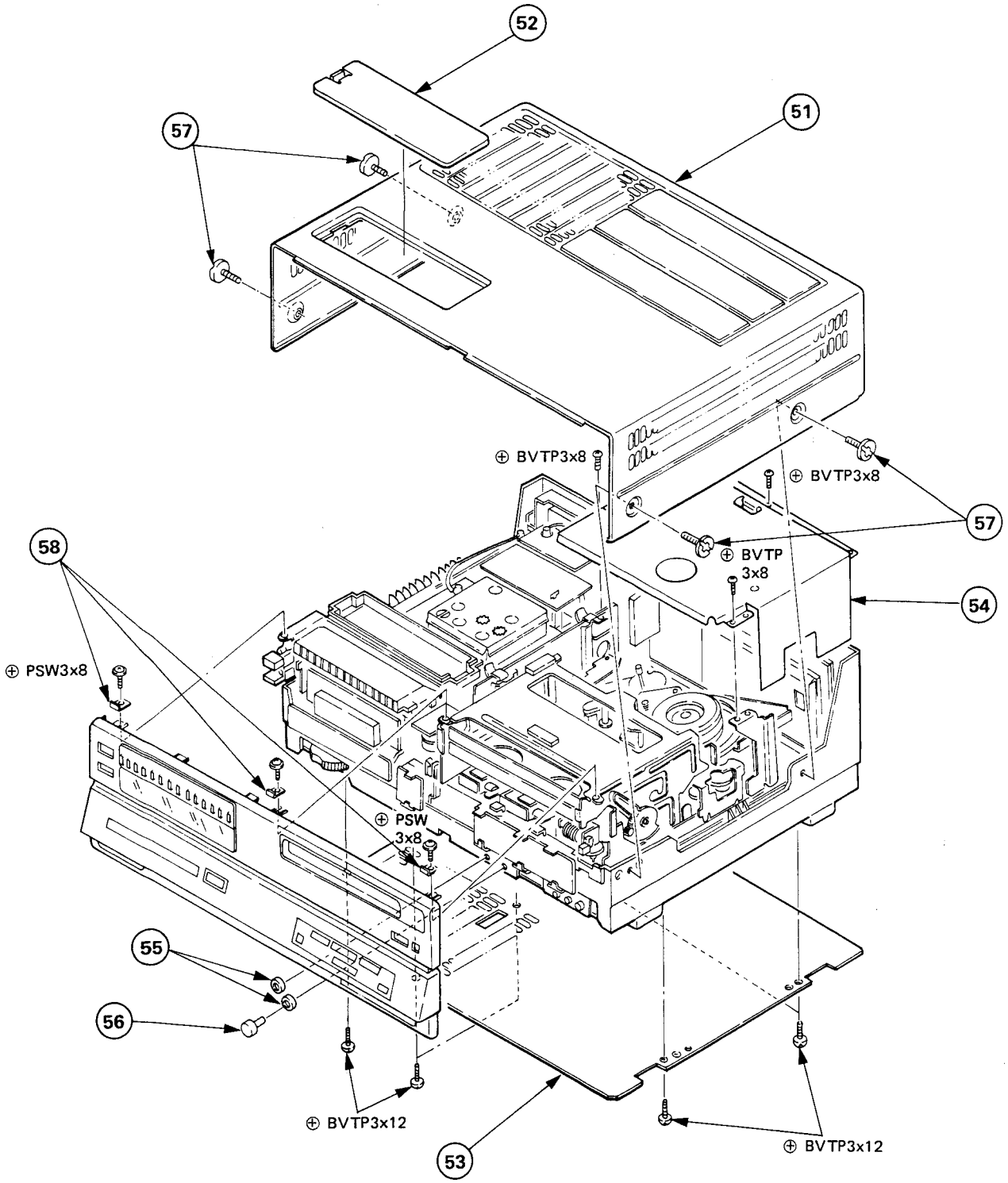
1 2 3

FRONT ASSEMBLY



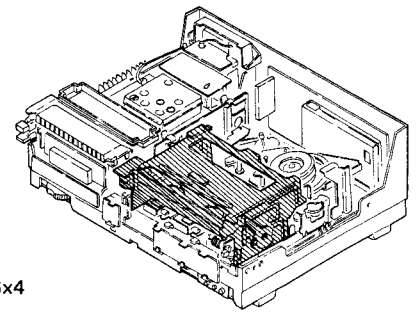
No.	Part No	Description	Remark
1	X-3671-039-0	PANEL (USA) ASSY, FRONT	
2	3-489-097-00	SPRING, TENSION	
3	3-659-609-00	SPRING, COMPRESSION	
4	3-671-110-00	BUTTON, REC	
5	♦:3-671-111-00	RETAINER, REC BUTTON	
6	3-671-112-00	LABEL, TRACK CONTROL	
7	3-671-113-00	LABEL, INPUT	
8	3-671-117-00	BUTTON, CHANNEL	
9	3-671-125-00	RETAINER, SPRING	
10	3-671-196-00	HOLDER (USA), SCALE, DIAL	
11	3-671-197-00	CARD (USA), DIAL SCALE	

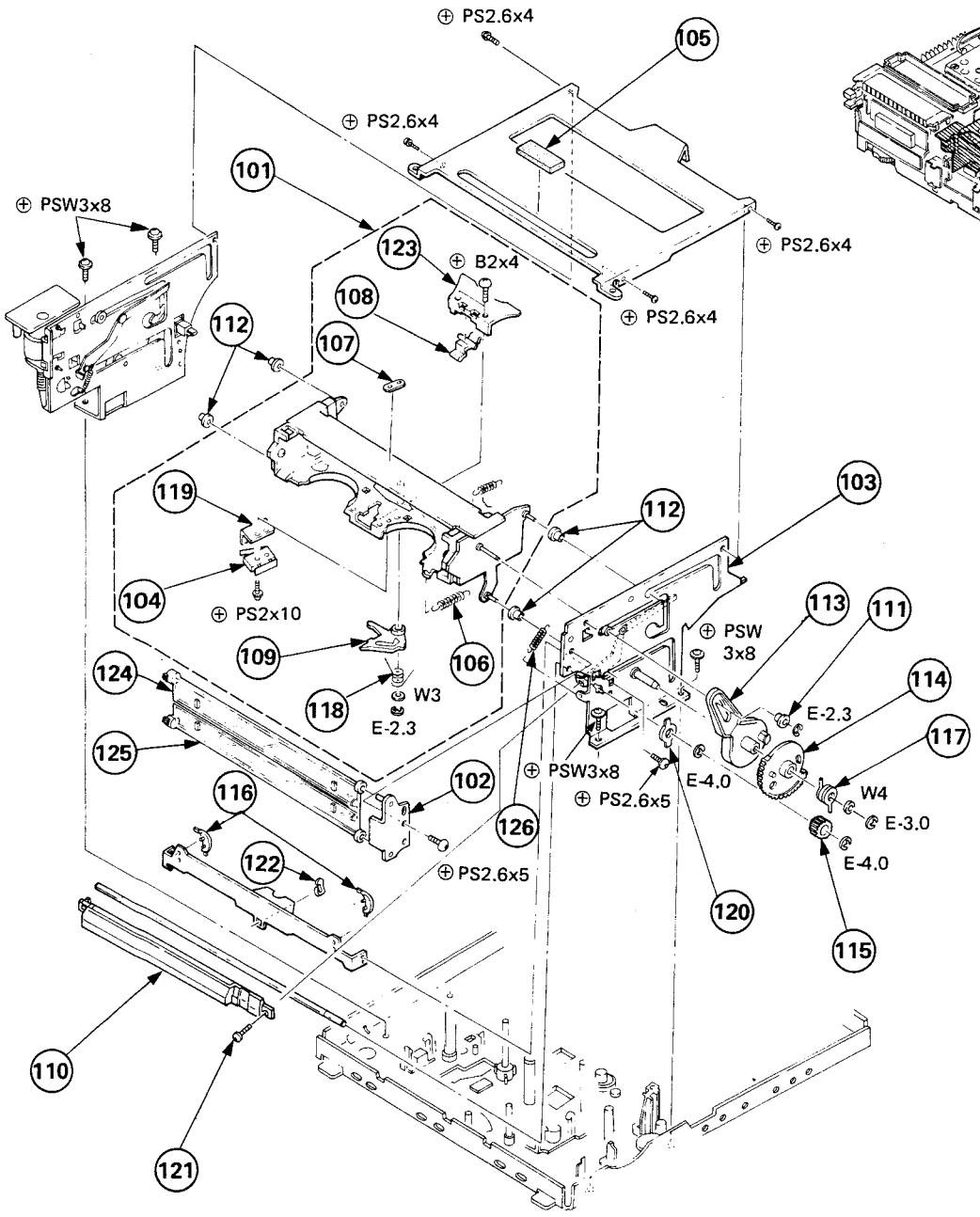
CABINET ASSEMBLY



No.	Part No	Description	Remark
51	X-3671-034-0	CASE (USA) ASSY	
52	X-3671-035-0	LID (USA) ASSY	
53	X-3671-036-0	PLATE (USA) ASSY, BOTTOM	
54	♦:X-3671-043-0	PLATE (A) ASSY, SHIELD	
55	3-671-260-00	NUT, ROUND, KNURL	
56	3-671-271-00	COVER, JACK	
57	4-847-802-11	SCREW, CASE STOPPER	
58	♦:3-671-276-00	WASHER, TYPE L	

CASSETTE LOADING ASSEMBLY (1)

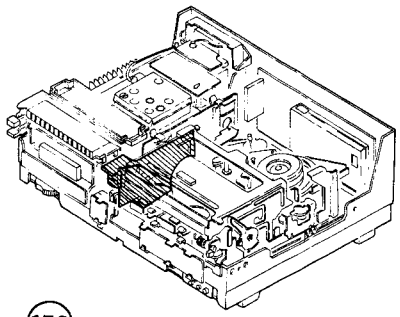


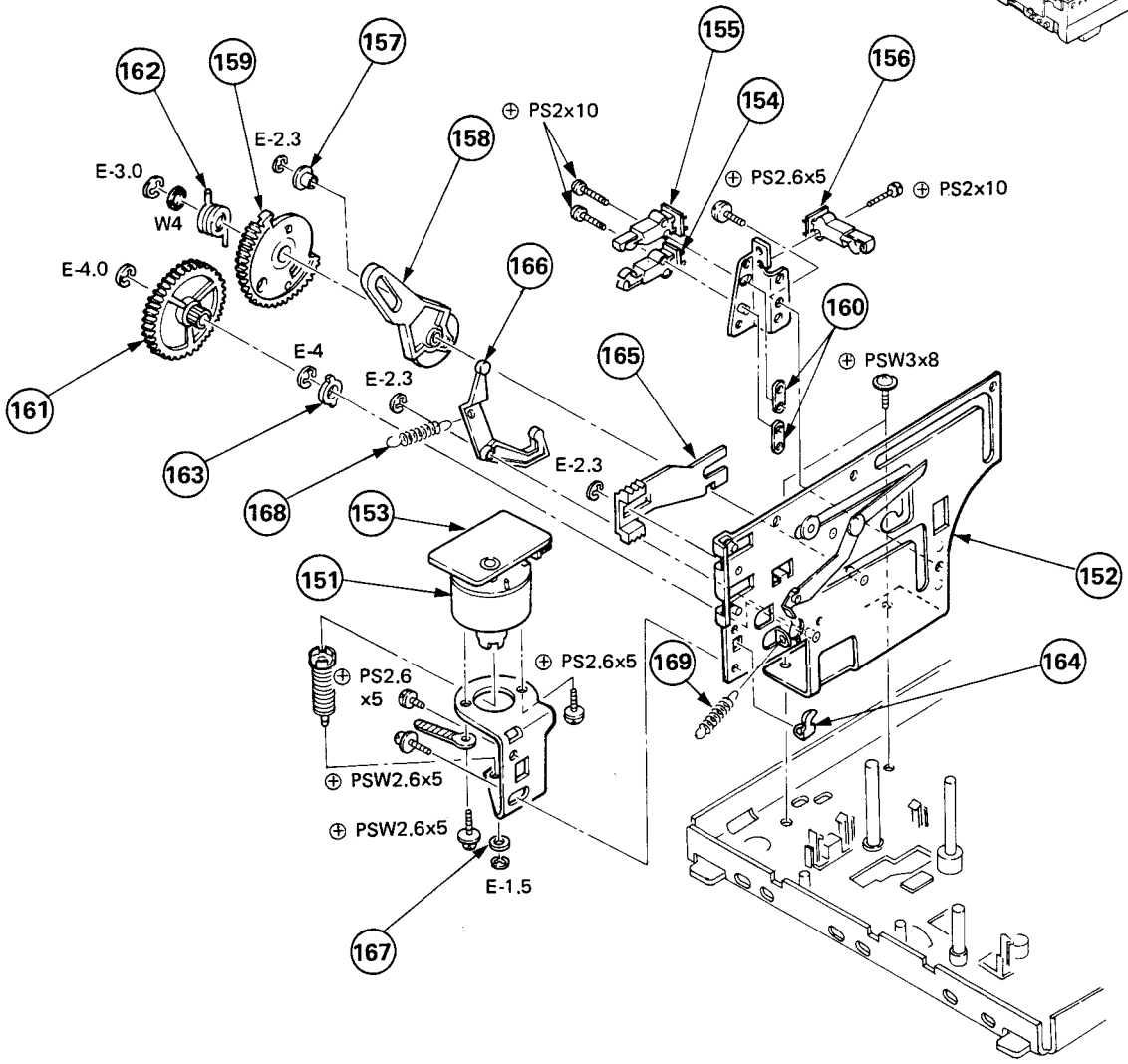


No.	Part No	Description	Remark
101	A-6751-125-A	BASE BLOCK ASSY, CASSETTE	
102	♦:X-3671-016-0	PLATE ASSY, FULCRUM, DOOR	
103	♦:X-3671-032-0	PLATE ASSY, SIDE, RIGHT	
104	1-552-664-00	SWITCH, MICRO	
105	9-911-815-02	CUSHION	
106	3-530-249-XX	SPRING, TENSION	
107	♦:3-646-476-00	NUT, PLATE	
108	♦:3-671-008-00	ARM, LOCK RELEASE	
109	3-671-009-00	PLATE, LOCK	
110	3-671-015-00	DOOR, INNER	
111	♦:3-671-016-00	BUSHING, MOVE ARM	
112	3-671-018-00	ROLLER (B)	
113	♦:3-671-019-00	ARM, MOVE	

No.	Part No	Description	Remark
114	3-671-021-00	GEAR, MOVE, RIGHT	
115	3-671-026-00	WHEEL, RIGHT	
116	♦:3-671-036-00	CHIP, CASSETTE GUIDE	
117	3-671-040-00	SPRING	
118	3-671-041-00	SPRING	
119	♦:3-671-132-00	COVER, SWITCH, MICRO	
120	♦:3-671-134-00	BEARING	
121	3-671-148-00	SCREW, INNER DOOR	
122	♦:3-671-150-00	CLAMP	
123	♦:3-671-155-00	COVER, FULCRUM	
124	3-671-164-00	DOOR, UPPER	
125	3-671-165-00	DOOR, LOWER	
126	3-491-240-00	SPRING, TENSION	

CASSETTE LOADING ASSEMBLY (2)

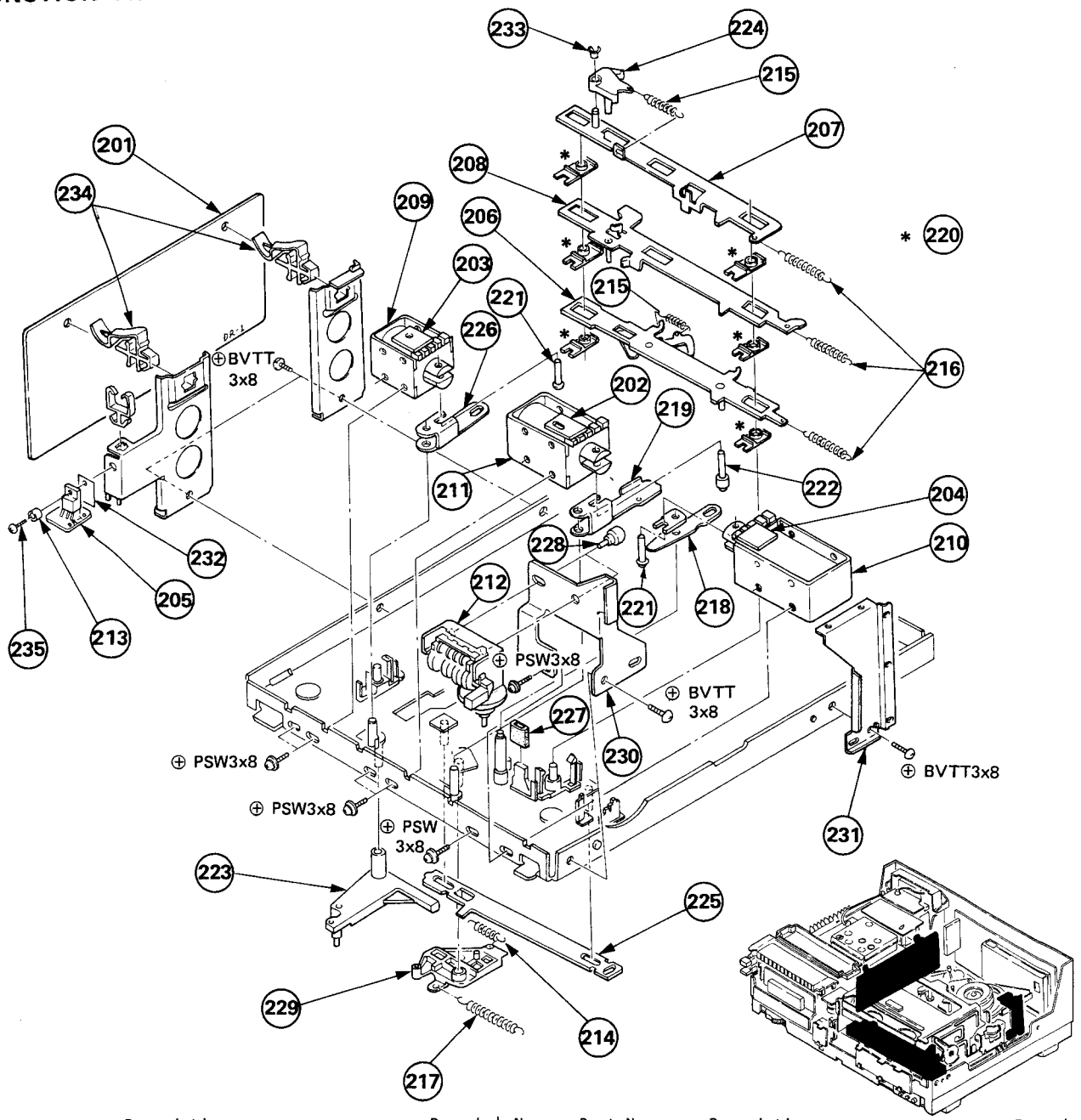




No.	Part No	Description	Remark
151	A-6751-131-A	MOTOR ASSY, F.L.	
152	◆:X-3671-031-0	PLATE ASSY, SIDE, LEFT	
153	◆:1-605-704-00	TT-5 BOARD	
154	◆:1-605-705-00	TT-2 BOARD	
155	◆:1-605-706-00	TT-3 BOARD	
156	◆:1-605-707-00	TT-4 BOARD	
157	◆:3-671-016-00	BUSHING, MOVE ARM	
158	◆:3-671-019-00	ARM, MOVE	
159	3-671-020-00	GEAR, MOVE, LEFT	

No.	Part No	Description	Remark
160	◆:3-671-023-00	PLATE, NUT	
161	3-671-027-00	WHEEL, WORM	
162	3-671-040-00	SPRING	
163	◆:3-671-134-00	BEARING	
164	◆:3-671-150-00	CLAMP	
165	3-671-157-00	RACK, DOOR	
166	◆:3-671-035-00	ARM, SWITCHING	
167	3-701-437-11	WASHER	
168	3-701-788-XX	SPRING, TENSION	
169	3-491-240-00	SPRING, TENSION	

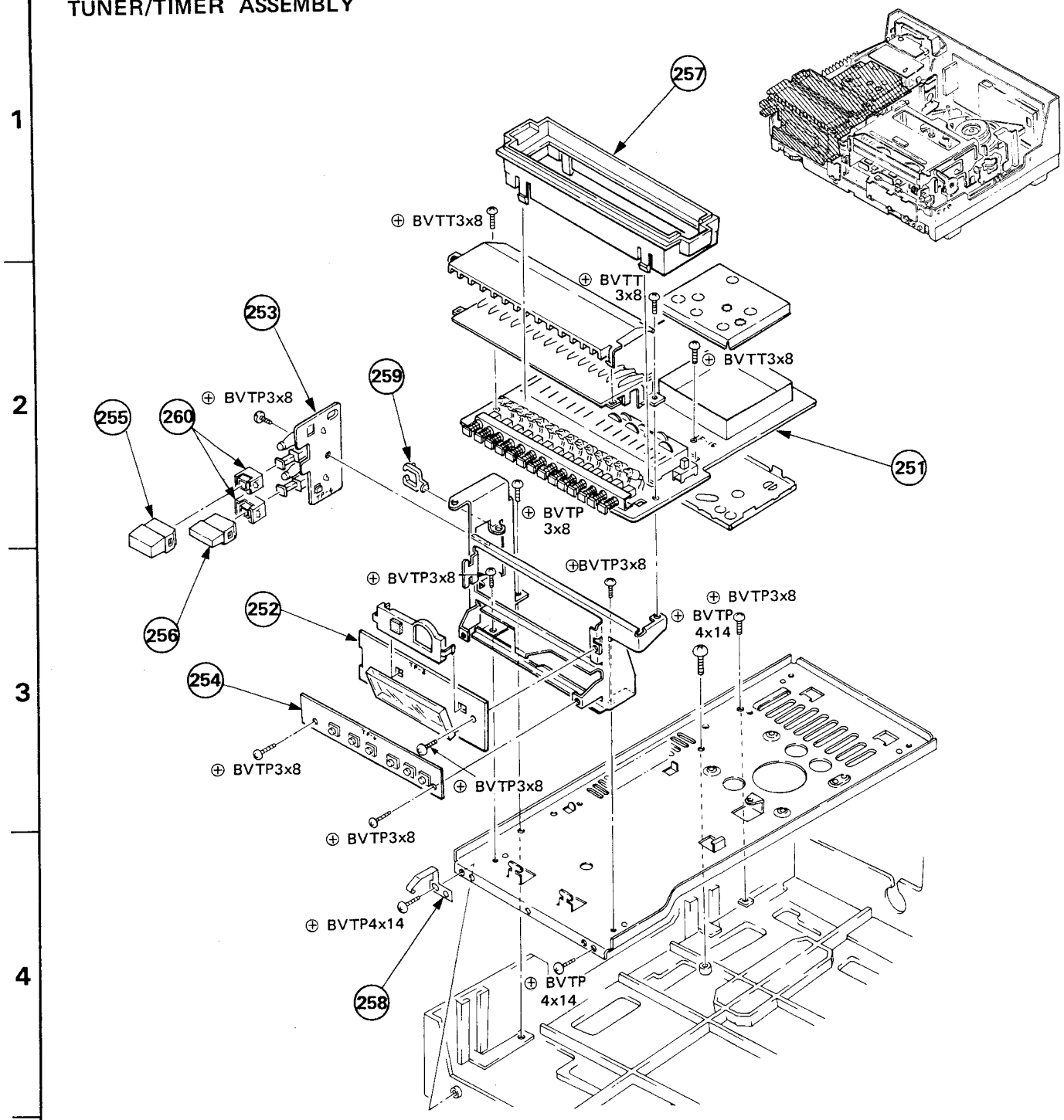
FUNCTION ASSEMBLY



No.	Part No	Description	Remark
201	♦:A-6728-305-A	DR-1 BOARD, COMPLETE	
202	♦:1-605-698-00	DR-5 BOARD	
203	♦:1-605-699-00	DR-6 BOARD	
204	♦:1-605-700-00	DR-7 BOARD	
205	♦:1-605-703-00	DR-10 BOARD	
206	♦:X-3671-010-0	PLATE ASSY, SLIDE, FE	
207	♦:X-3671-011-0	PLATE ASSY, SLIDE, RO	
208	♦:X-3671-012-0	PLATE ASSY, SLIDE, BS	
209	⚠1-454-292-11	SOLENOID, PLUNGER (BS)	
210	⚠1-454-293-11	SOLENOID, PLUNGER (FE)	
211	⚠1-454-294-11	SOLENOID, PLUNGER (FF)	
212	1-548-559-00	COUNTER, TAPE	
213	2-832-007-00	BUSHING (K), INSULATING	
214	3-533-223-11	SPRING, TENSION	
215	3-642-490-00	SPRING, TENSION	
216	3-642-491-00	SPRING, TENSION	
217	3-643-345-00	SPRING, TENSION (S)	

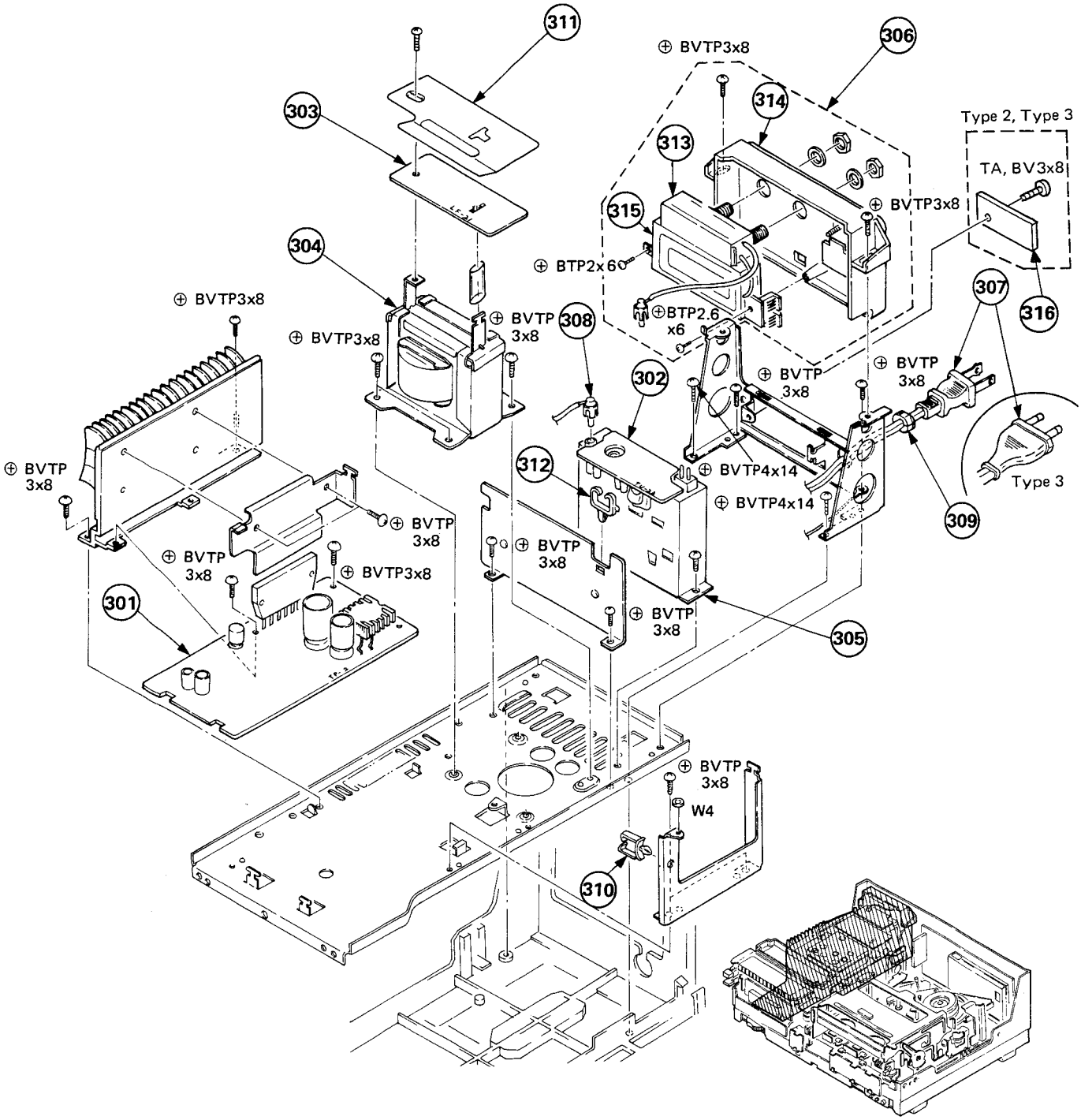
No.	Part No	Description	Remark
218	♦:3-671-052-00	LEVER, FE	
219	♦:3-671-053-00	LEVER, FF	
220	3-671-056-00	SPACER, SLIDE PLATE	
221	♦:3-671-057-00	PIN, SOLENOID	
222	♦:3-671-057-11	PIN, SOLENOID	
223	♦:3-671-079-00	LEVER, EJECT	
224	♦:3-671-082-00	ARM, RO SELECT	
225	♦:3-671-083-00	PLATE, SLIDE, EJECT	
226	♦:3-671-088-00	LEVER, BS	
227	3-671-093-00	BUSHING, MUFFLE	
228	3-671-135-00	SCREW, STEP	
229	♦:3-671-175-00	LEVER, RELAY	
230	♦:3-671-188-00	BRACKET, COUNTER	
231	♦:3-671-258-00	BRACKET, SHIELD PLATE	
232	3-701-754-00	PLATE, INSULATING	
233	3-703-074-00	CAP 3, SHAFT	
234	♦:3-703-141-00	HOLDER, PCB	
235	3-669-607-21	⊕ PSW (SMALL ROUND) (2.6)	

TUNER/TIMER ASSEMBLY



No.	Part No	Description	Remark
251	♦:A-6721-090-A	IF-16 BOARD, COMPLETE	
252	♦:1-605-683-00	TP-3 BOARD	
253	♦:1-605-684-00	TP-4 BOARD	
254	♦:1-605-685-00	TP-6 BOARD	
255	3-671-115-00	BUTTON, POWER SWITCH	
256	3-671-116-00	BUTTON, SWITCH, TIMER	
257	3-671-192-00	COVER (USA), PRESET	
258	♦:3-671-254-00	SPRING, LEAF (A)	
259	♦:4-310-385-00	HOLDER, WIRE	
260	4-864-307-00	RING	

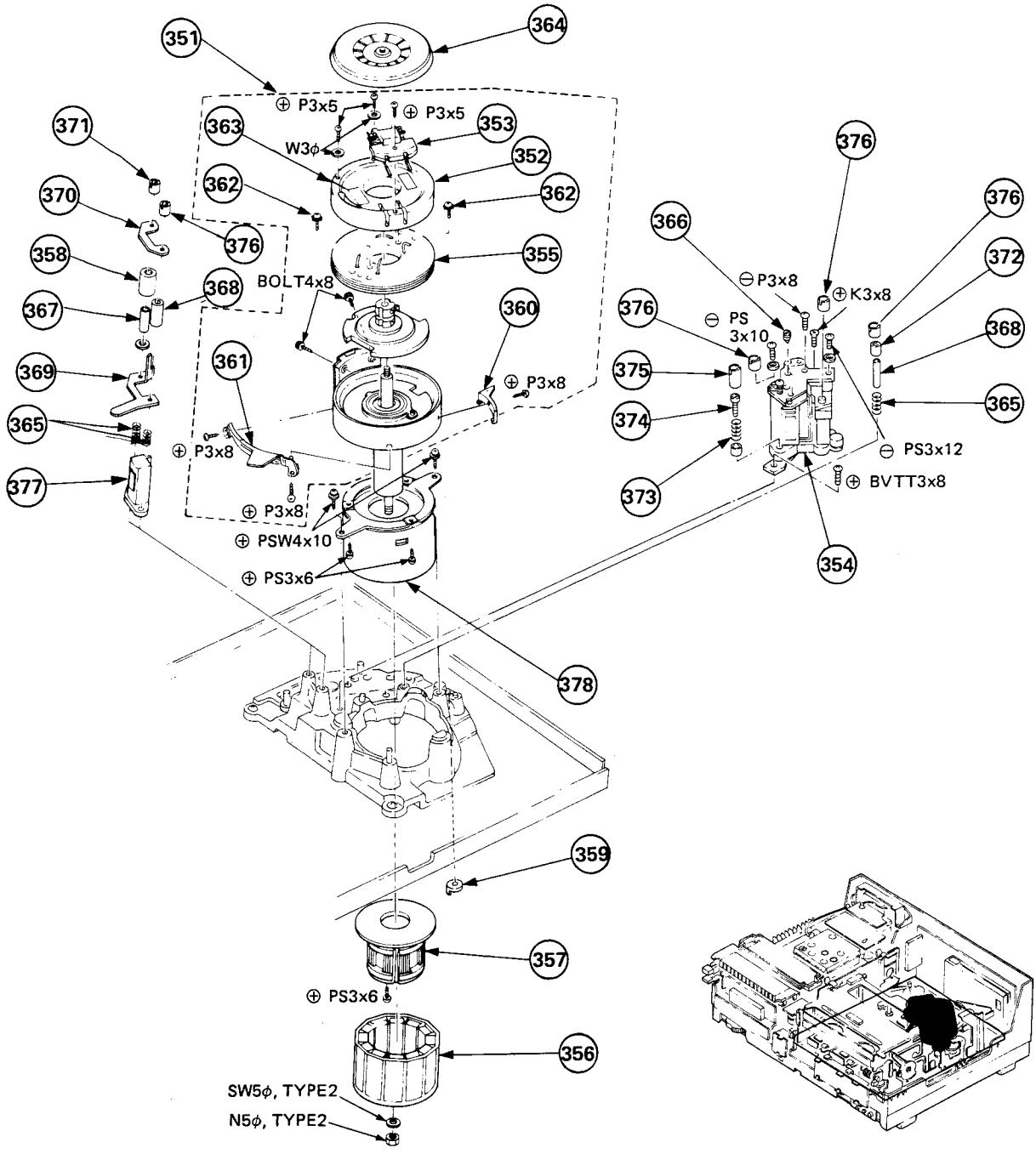
TUNER/POWER ASSEMBLY



No.	Part No	Description	Remark
301	♦:A-6728-317-A	TP-2 BOARD, COMPLETE	
302	♦:1-605-690-00	TU-23 BOARD	
303	♦:1-605-709-00	LF-21 BOARD	
303	♦:1-605-709-21	LF-21 BOARD (Type3)	
304	⚠:1-447-080-21	TRANSFORMER, POWER (Type1)	
304	⚠:1-447-276-11	TRANSFORMER, POWER (Type2)	
304	⚠ 1-447-218-00	TRANSFORMER, POWER (Type3)	
305	1-463-264-00	TUNER (BT-852)	
306	1-464-162-00	RF MODULATOR	
307	⚠:1-551-964-00	CORD, POWER	
307	⚠:1-556-208-11	CORD, POWER (Type3)	

No.	Part No	Description	Remark
308	♦:1-555-110-00	CABLE, PIN	
309	2-231-019-00	CLAMPER, CORD	
309	3-663-213-00	STOPPER, CORD (Type3)	
310	♦:3-655-214-00	CLIP, CABLE	
311	♦:3-671-281-00	COVER, LF-21	
312	♦:4-310-385-00	HOLDER, WIRE	
313	9-982-040-00	SWITCH, ANTENNA, SELECTION	
314	9-982-041-00	TERMINAL, STRIP, ANTENNA	
315	9-982-042-00	ASSY, RF UNIT COLOR	
316	♦:1-605-686-00	TP-7 BOARD (Type2, Type3)	

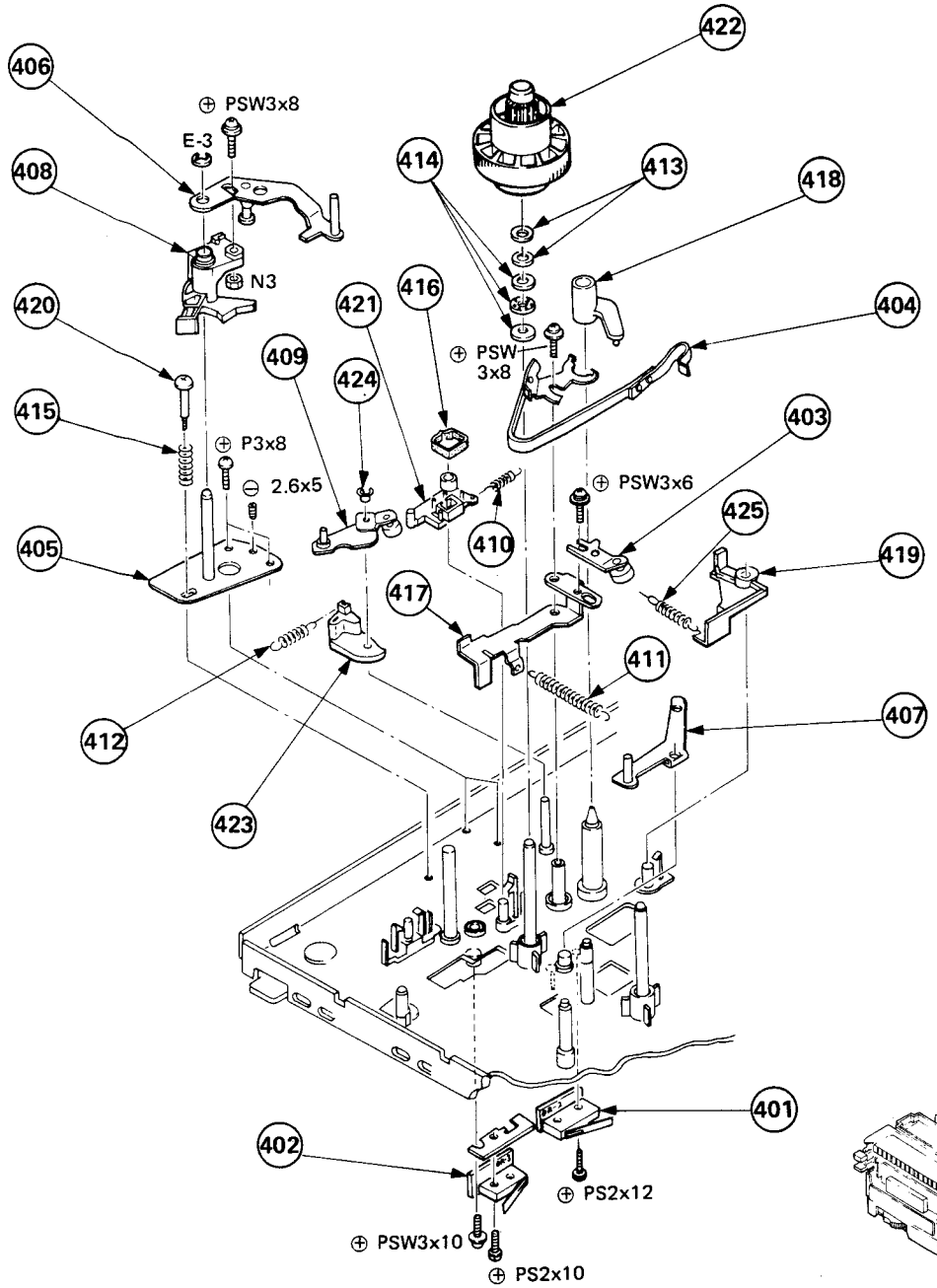
DRUM ASSEMBLY

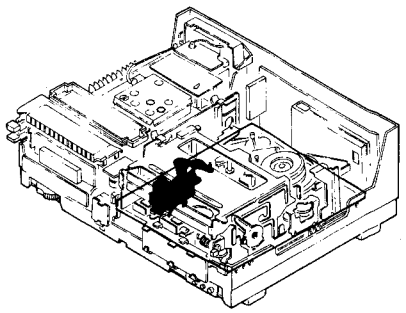


No.	Part No	Description	Remark
351	A-6050-043-A	DRUM ASSY	
352	A-6760-050-A	DRUM ASSY, APPER	
353	A-6761-013-B	SPRING ASSY, TEPE RETAINER	
354	A-6761-044-A	ACE ASSY	
355	A-6762-031-A	VIDEO HEAD DISK ASSY	
356	⚠:X-2619-402-0	ROTOR ASSY	
357	X-2619-403-0	STATOR ASSY	
358	X-3659-304-0	ROLLER ASSY, GUIDE, NO.1	
359	3-610-939-50	NUT, TAPE GUIDE	
360	3-652-728-00	BRACKET (B), TAPE	
361	3-652-741-00	BRACKET (A), TAPE	
362	3-652-751-00	SCREW (+P EXT TOOTH WS 3X8)	
363	⚠:3-652-783-00	LABEL	
364	3-658-122-00	FAN	

No.	Part No	Description	Remark
365	3-659-324-00	SPRING, COMPRESSION	
366	3-659-332-00	SCREW	
367	3-659-341-00	SLEEVE, GUIDE, NO.1	
368	3-659-342-00	SLEEVE, GUIDE, NO.2	
369	⚠:3-659-343-00	BRACKET, TAPE, ENTRANCE	
370	3-659-344-00	PLATE, GUIDE, ENTRANCE	
371	3-659-345-00	NUT, GUIDE, NO.1	
372	3-659-716-00	FLANGE, GUIDE	
373	3-659-750-00	SPRING, COMPRESSION	
374	3-659-751-00	SCREW, A.C.E ADJUSTMENT	
375	3-659-752-00	NUT, A.C.E ROCK	
376	3-660-997-00	NUT (N), GUIDE ADJUSTMENT	
377	8-825-687-30	HEAD, FULL ERASE EF182-21	
378	⚠:X-3652-713-0	CASE ASS'Y, SHIELD	

CHASSIS ASSEMBLY (1)

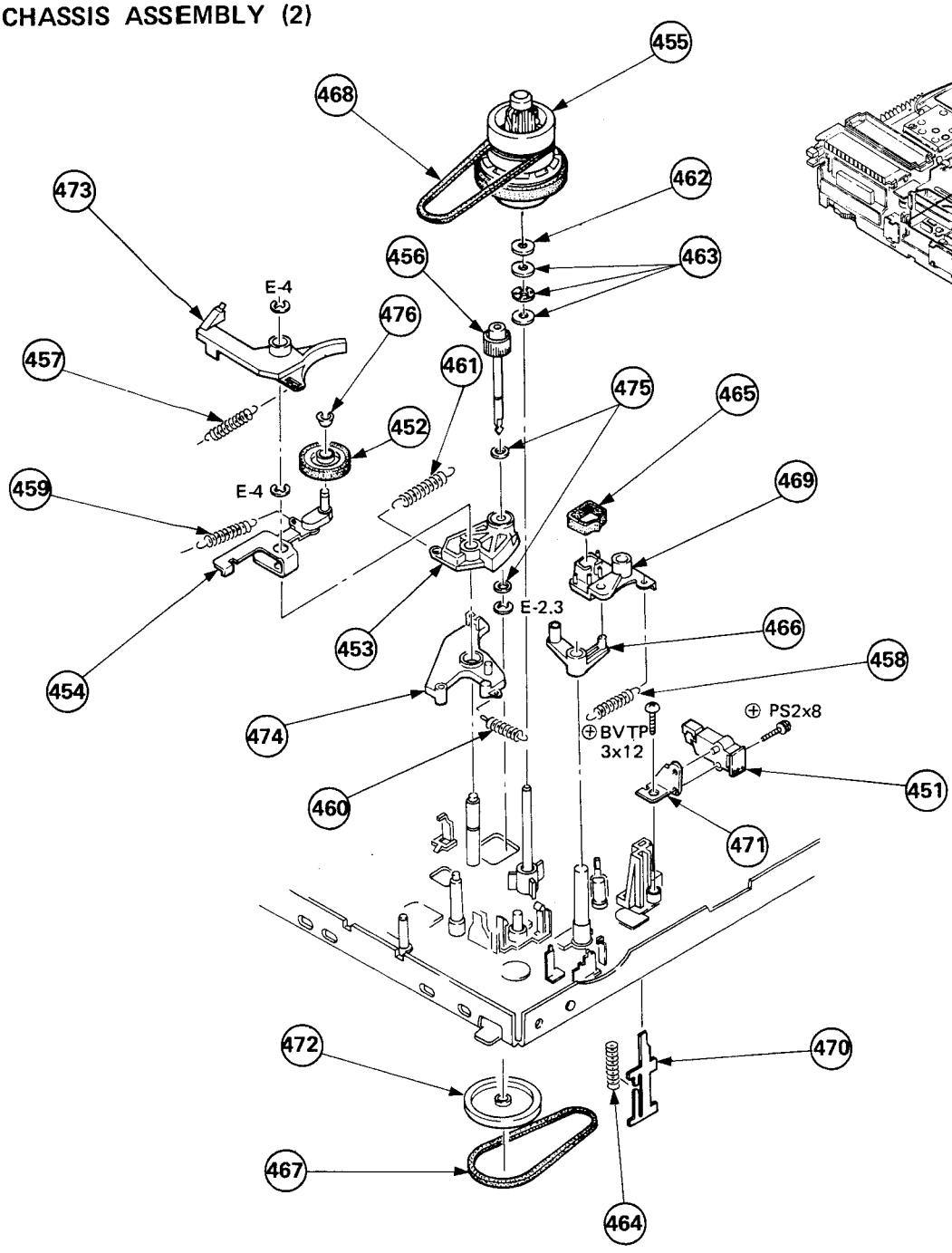


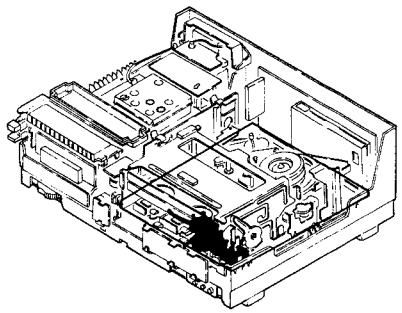


No.	Part No	Description	Remark
401	▲:1-605-695-00	DR-2 BOARD	
402	▲:1-605-696-00	DR-3 BOARD	
403	X-3659-323-0	PLATE ASSY, ADJUSTMENT, R	
404	X-3659-328-2	BAND ASSY, TENSION REGULATOR	
405	▲:X-3671-006-0	PLATE ASSY, ADJUSTMENT	
406	▲:X-3671-007-0	PLATE ASSY, ARM	
407	▲:X-3671-021-0	LINK ASSY, FWD	
408	▲:X-3671-038-0	ARM ASSY, TENSION REGULATOR	
409	▲:X-3671-042-0	LEVER ASSY, PUSH-OUT	
410	3-534-217-00	SPRING, TENSION	
411	3-536-249-00	SPRING, TENSION	
412	▲:3-630-857-00	SPRING	
413	3-646-184-11	SPACER (T: 0.2)-11 (T: 0.1)	

No.	Part No	Description	Remark
414	3-646-185-00	BEARING	
415	3-652-413-00	SPRING, COMPRESSION	
416	3-659-446-00	LINING, BRAKE	
417	▲:3-671-062-00	ARM, RING	
418	▲:3-671-091-00	CAM, FWD	
419	▲:3-671-101-00	LEVER (E), SWITCH	
420	3-671-143-00	SCREW, ADJUSTMENT	
421	3-671-149-00	BRAKE, S	
422	3-671-169-00	TABLE, REEL, S	
423	▲:3-671-184-00	LINK, TENSION, REGULATOR	
424	3-703-074-00	CAP 3, SHAFT	
425	4-847-561-00	SPRING, TENSION	

CHASSIS ASSEMBLY (2)

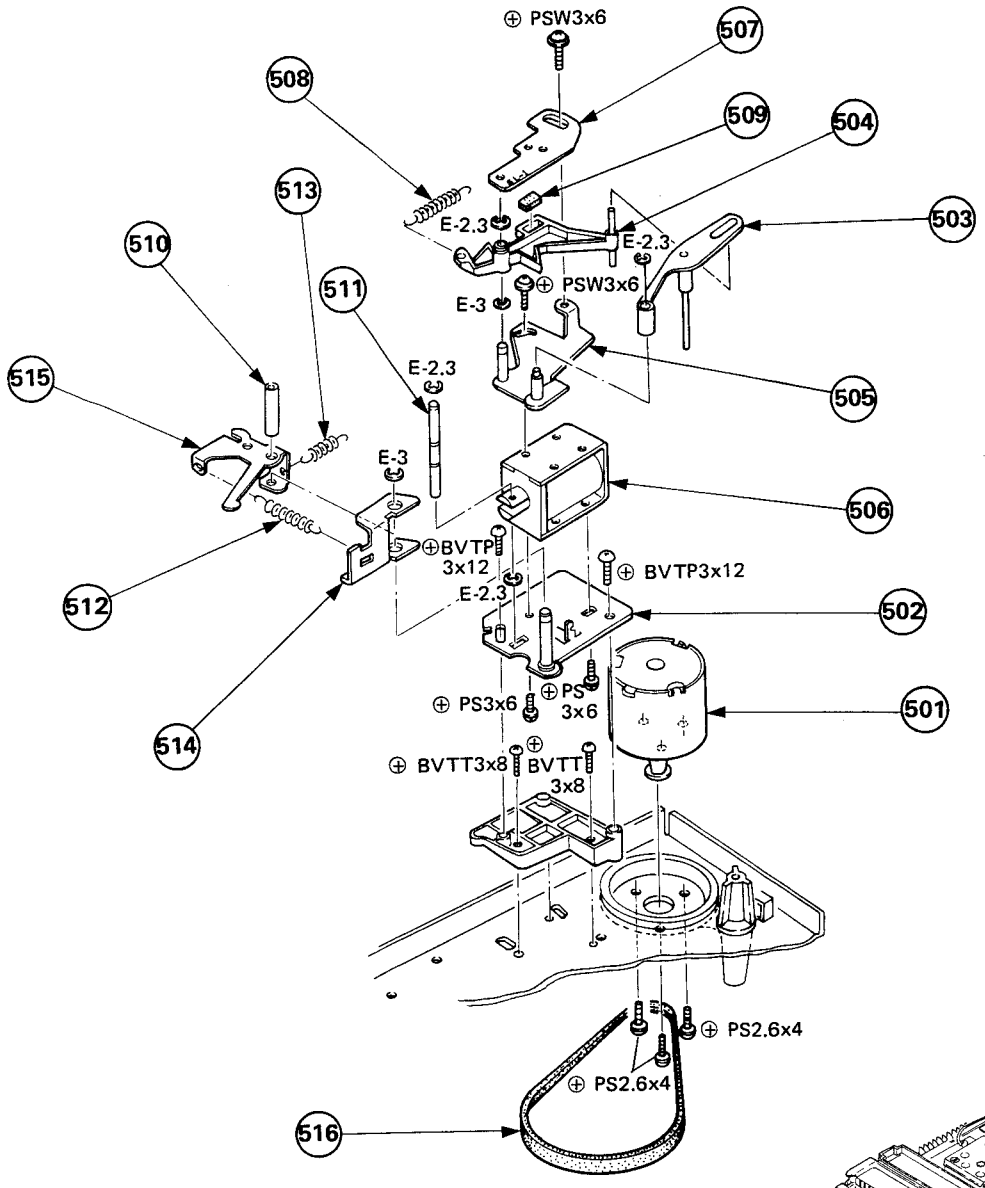


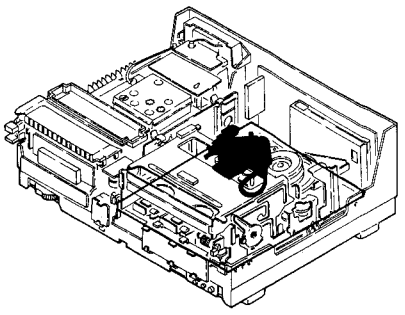


No.	Part No	Description	Remark
451	♦:1-605-697-00	DR-4 BOARD	
452	X-3653-315-0	IDLER ASSY	
453	♦:X-3671-002-0	ARM ASSY, FF	
454	♦:X-3671-003-0	ARM ASSY, REW	
455	X-3671-004-0	TABLE ASSY, REEL, TAKE-UP	
456	X-3671-023-0	PULLEY (SMALL) ASSY, FF	
457	3-143-096-00	SPRING, TENSION	
458	3-534-217-00	SPRING, TENSION	
459	3-642-483-00	SPRING, TENSION	
460	3-642-633-01	SPRING, TENSION	
461	3-645-168-00	SPRING, TENSION	
462	3-646-184-00	SPACER (T: 0.2)-11 (T: 0.1)	
463	3-646-185-00	BEARING	

No.	Part No	Description	Remark
464	3-646-312-00	SPRING	
465	3-659-446-00	LINING, BRAKE	
466	♦:3-671-055-00	ARM, TB	
467	3-671-077-00	BELT, FF	
468	3-671-094-00	BELT, COUNTER	
469	3-671-102-00	BRAKE, T	
470	♦:3-671-107-00	PLATE, ERASING PROTECTION	
471	♦:3-671-108-00	BRACKET, SWITCH	
472	3-671-170-00	PULLEY (LARGE), FF	
473	♦:3-671-173-00	ARM, BRAKE, SOFT	
474	♦:3-671-179-00	ARM, LIMITER, FF	
475	3-701-439-21	WASHER	
476	3-703-074-00	CAP 3, SHAFT	

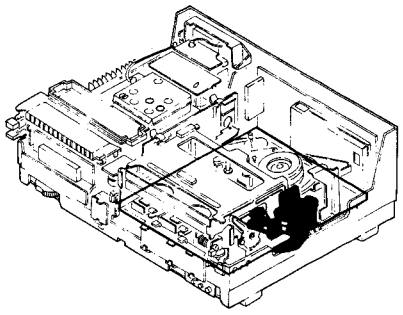
CHASSIS ASSEMBLY (3)

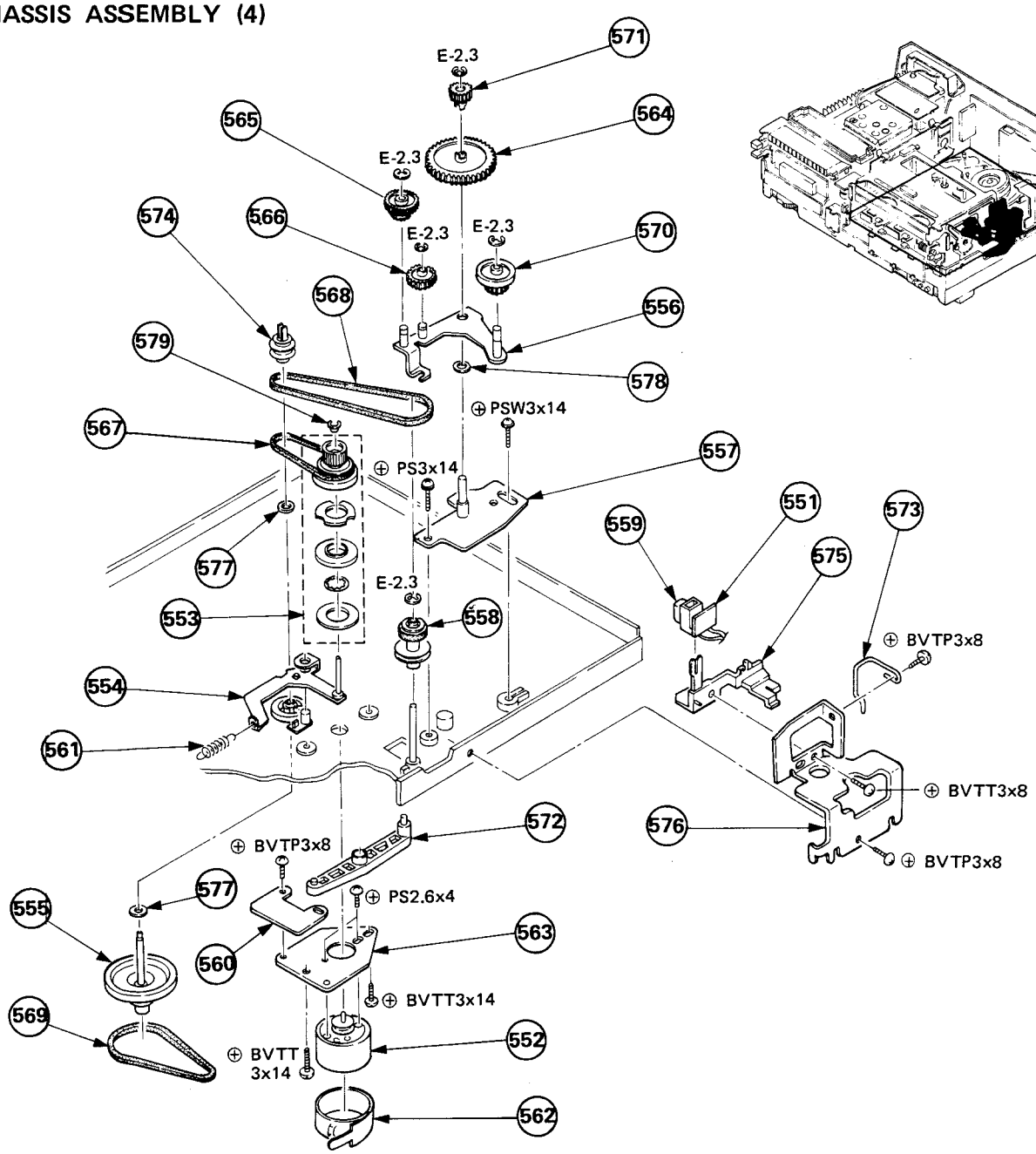




No.	Part No	Description	Remark
501	A-6737-103-A	MOTOR ASSY, CAPSTAN	
502	▲:X-3671-008-0	BASE ASSY, SOLENOID, PINCH	
503	X-3671-044-0	ARM (B) ASSY, SLACK DETECTION	
504	X-3671-045-0	ARM ASSY, SLACK DETECTION	
505	X-3671-046-0	BASE ASSY, SLACK DETECTION	
506	⚠▲:1-454-295-00	SOLENOID, PLUNGER (PINCH)	
507	▲:1-605-691-00	SL-1 BOARD	
508	3-642-490-00	SPRING, TENSION	
509	3-646-571-00	MAGNET	
510	▲:3-658-194-00	SPACER (4-25)	
511	▲:3-659-780-00	PIN, LEVER, PINCH PRESS	
512	3-659-784-00	SPRING, TENSION	
513	3-659-785-00	SPRING, TENSION	
514	▲:3-671-063-00	LEVER (A), PRESS, PINCH	
515	▲:3-671-064-00	LEVER (B), PRESS, PINCH	
516	3-671-253-00	BELT, CAPSTAN	

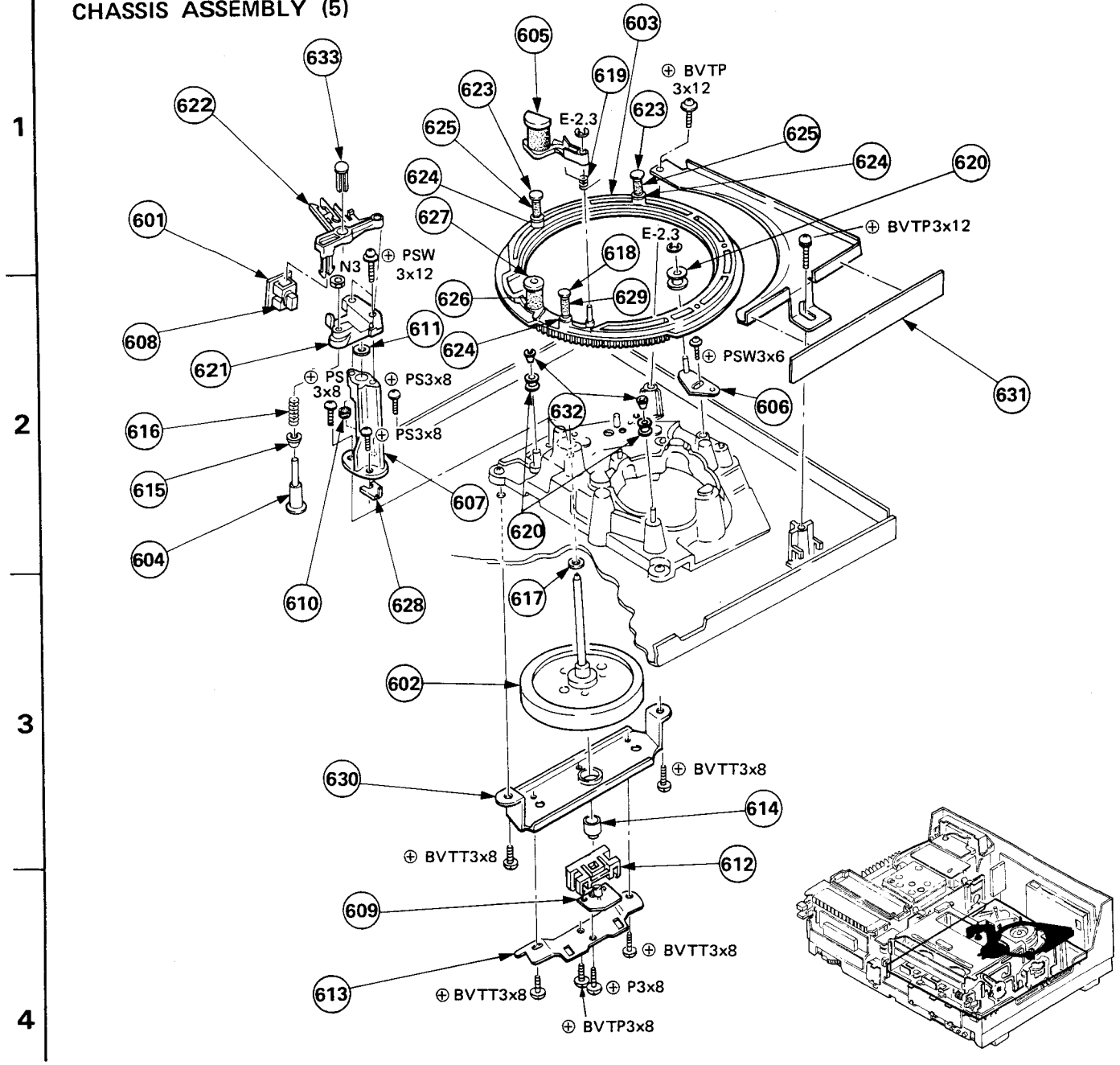
CHASSIS ASSEMBLY (4)





No.	Part No	Description	Remark
551	♦:1-605-702-00	DR-9 BOARD	
552	A-6737-101-A	MOTOR ASSY, REEL	
553	A-6740-072-A	RIMITTER ASSY, FWD	
554	♦:X-3671-001-0	ARM ASSY, FWD	
555	X-3671-005-0	PULLEY (LARGE) ASSY, RELAY	
556	♦:X-3671-013-0	LEVER ASSY, GEAR	
557	♦:X-3671-014-0	BASE ASSY, GEAR	
558	X-3671-015-0	PULLEY ASSY, LOADING	
559	1-543-145-00	HEAD, SENSING	
560	♦:1-605-692-00	FL-2 BOARD	
561	3-642-483-00	SPRING, TENSION	
562	♦:3-664-333-00	PLATE, SHIELD, MOTOR	
563	♦:3-671-060-00	BRACKET, MOTOR	
564	3-671-069-00	GEAR (B), THREADING	
565	3-671-070-00	GEAR (D), THREADING	
566	3-671-071-00	GEAR (E), THREADING	
567	3-671-078-00	BELT, FWD	
568	3-671-098-00	BELT, THREADING	
569	3-671-120-00	BELT, RELAY	
570	3-671-126-00	GEAR (C), THREADING	
571	3-671-127-00	GEAR (A), THREADING	
572	♦:3-671-129-00	ARM, CHANGE	
573	♦:3-671-131-00	ARM, REMOVAL, ELECTROSTATIC	
574	3-671-171-00	PULLEY (SMALL), RELAY	
575	♦:3-671-174-00	HOLDER, SENSOR, T	
576	♦:3-671-180-00	LID OPEN	
577	3-701-443-11	WASHER	
578	3-701-443-21	WASHER, 5	
579	3-703-075-00	CAP 2, SHAFT	

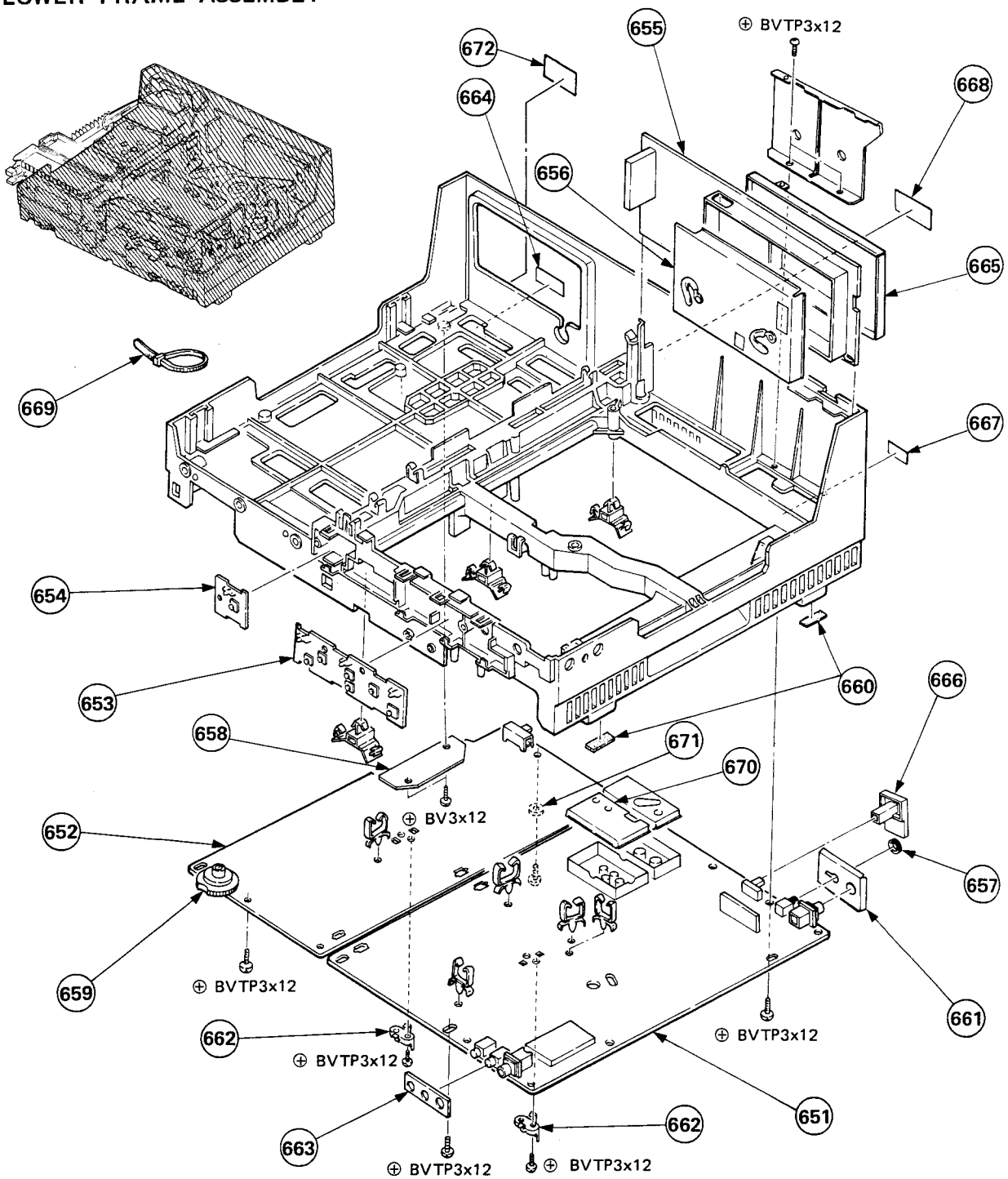
CHASSIS ASSEMBLY (5)



No.	Part No	Description	Remark
601	⚠:1-605-701-00	DR-8 BOARD	
602	A-6737-102-A	CAPSTAN BLOCK ASSY	
603	A-6750-132-A	RING BLOCK ASSY, THREADING	
604	X-3659-308-0	GUIDE ASSY, NO.0	
605	X-3659-337-0	ARM ASSY, PINCH ROLLER	
606	⚠:X-3664-337-0	SUPPORT ASSY, RING ROLLER	
607	X-3671-019-0	HOUSING ASSY, CAPSTAN	
608	1-543-145-00	HEAD, SENSING	
609	⚠:1-605-708-00	FG-2 BOARD	
610	3-646-182-00	CAP, OIL	
611	3-646-183-00	ABSORBER, CAPSTAN OIL	
612	3-658-161-00	HOLDER, DME	
613	⚠:3-659-313-00	PLATE, ADJUSTEMENT, DME	
614	3-659-314-00	RETAINER, THRUST	
615	3-659-337-00	FLANGE, NO.0 GUIDE UPPER	
616	3-659-338-00	SPRING, COMPRESSION	
617	3-659-350-00	POLY-SLIDER (3.4. DIA.)	

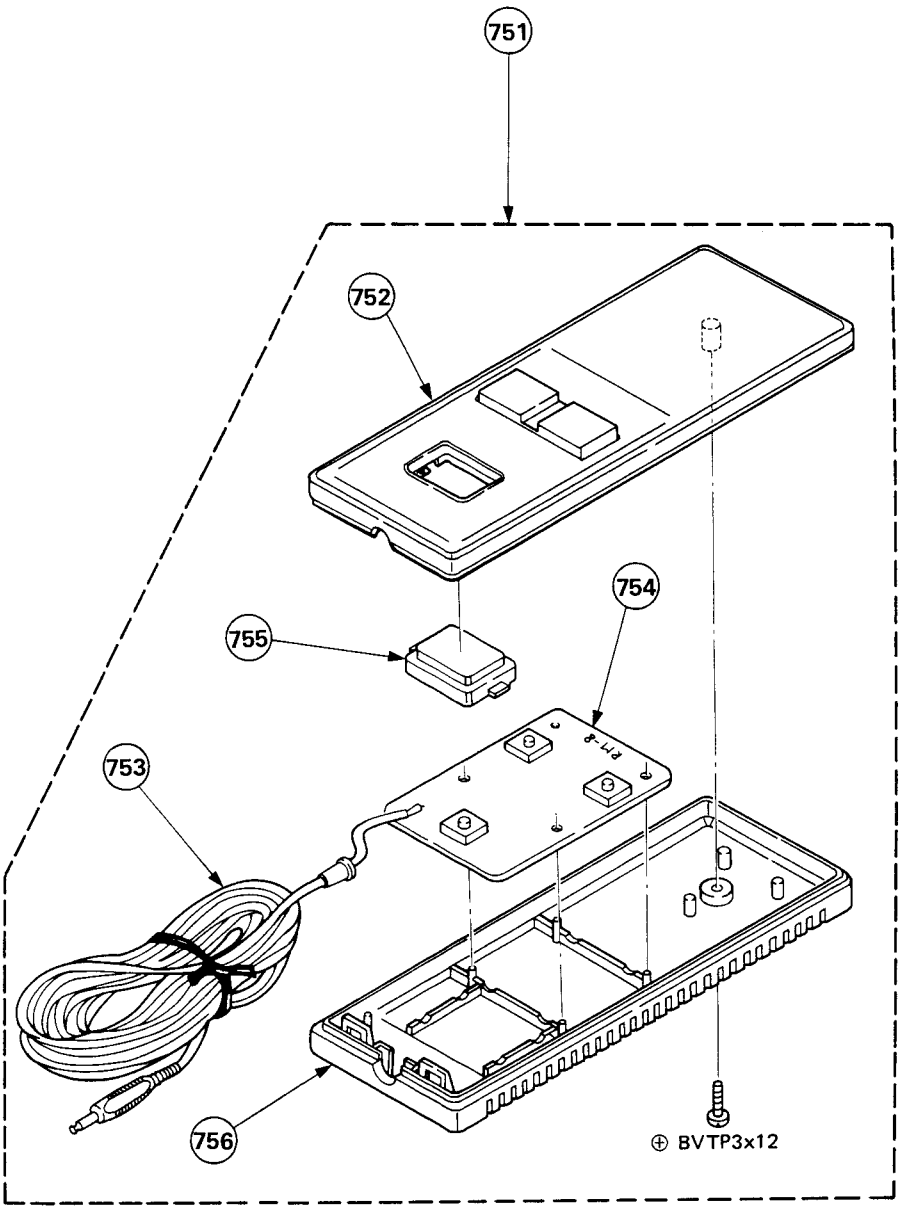
No.	Part No	Description	Remark
618	⚠:3-659-385-00	CAP (LARGE), GUIDE ROLLER	
619	3-659-388-00	SPRING	
620	3-659-391-00	ROLLER, RING	
621	3-659-551-00	FRAME, GUIDE, NO.0	
622	⚠:3-659-632-00	HOLDER, S SENSOR	
623	⚠:3-659-643-00	CAP(SMALL)(UPPER), GUIDE ROLLER	
624	⚠:3-659-644-00	CAP(SMALL)(LOWER), GUIDE ROLLER	
625	⚠:3-659-645-00	ROLLER (SMALL), GUIDE	
626	⚠:3-659-646-00	ROLLER (LARGE), GUIDE	
627	⚠:3-659-647-00	CAP(LARGE)(UPPER), GUIDE ROLLER	
628	3-659-759-11	SPACER, CAPSTAN	
629	⚠:3-660-912-00	ROLLER, PRECEDING GUIDE	
630	⚠:3-671-191-00	RETAINER, CAPSTAN	
631	⚠:3-672-402-00	PLATE, GUIDE	
632	3-703-074-00	CAP 3, SHAFT	
633	4-829-039-00	RIVET, NYLON	

LOWER FRAME ASSEMBLY



No.	Part No	Description	Remark
651	⚫:A-6711-300-A	VA-1 BOARD, COMPLETE	
652	⚫:A-6713-115-A	SS-9 BOARD, COMPLETE	
653	⚫:1-605-687-00	FS-11 BOARD	
654	⚫:1-605-688-00	FS-12 BOARD	
655	⚫:A-6728-325-A	RP-5 BOARD, COMPLETE	
656	⚫:X-3671-041-0	CASE (UPPER LID) ASSY, SHIELD	
657	1-507-902-XX	JUCK NUT	
658	⚫:1-606-102-00	CP-6 BOARD	
659	3-659-528-00	KNOB, TRACK CONTROL	
660	3-659-532-00	FELT, FOOT	
661	3-671-105-00	PLATE (REAR), ORNAMENTAL, JACK	
662	⚫:3-671-145-00	STOPPER, BOTTOM PLATE	
663	3-671-147-00	PLATE (FRONT), ORNAMENTAL, JACK	
664	⚫:3-671-154-00	LABEL, SPEED SELECTION	
665	⚫:3-671-247-00	CASE (BOTTOM LID), SHIELD, RP	
666	3-671-257-00	COVER, SLIDE SWITCH	
667	3-671-259-00	LABEL, PCM S/W	
668	⚫:3-671-274-00	LABEL, MODEL NUMBER (Type1, USA)	
668	⚫:3-671-275-00	LABEL, MODEL NUMBER (Type1, CND)	
668	⚫:3-672-413-00	LABEL, MODEL NUMBER (Type1)	
668	⚫:3-672-415-00	LABEL, MODEL NUMBER (Type3)	
668	⚫:3-672-417-00	LABEL, MODEL NUMBER (Type2)	
669	3-701-748-00	CLAMP	
670	3-671-239-00	CASE (A) (UPPER LID), SHIELD	
671	4-308-030-11	WASHER	
672	3-672-416-00	LABEL, TIMER SELECTION (Type2, Type3)	

REMOTE CONTROL UNIT



No.	Part No	Description	Remark
751	A-6701-171-A	COMMANDER ASSY, REMOTE	
752	X-3671-022-0	CASE (UPPER) ASSY (USA)	
753	1-551-529-11	CABLE	
754	♦:1-605-714-00	RM-8 BOARD	
755	3-671-136-00	KEY TOP, PAUSE	
756	3-671-212-00	CASE (LOWER)	

SECTION 5
ELECTRICAL PARTS LIST

VA-1 BOARD

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

RESISTORS
- All resistors are in ohms
- F : nonflammable

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

When indicating parts by reference number, please include the board name.

Ref.No	Part No	Description			Remark
♦	A-6711-300-A	VA-1 BOARD, COMPLETE **********			
♦	3-655-214-00	CLIP, CABLE			
♦	3-661-659-00	CASE (MAIN), SHIELD			
♦	3-671-240-00	CASE (A) (MAIN), SHIELD, AUDIO			
♦	3-671-242-00	CASE (B) (UPPER LID), SHIELD			
♦	3-671-243-00	CASE (B) (MAIN), SHIELD, AUDIO			
♦	3-671-244-00	CASE (B) (BOTTOM LID), SHIELD			
♦	3-671-251-00	CASE (REAR PLATE), SHIELD			
♦	3-671-252-00	PLATE (D), GROUND			
	3-701-748-00	CLAMP			
		CAPACITOR			
C78	1-123-318-00	ELECT	33MF	20%	16V
C001	1-161-047-00	CERAMIC	0.0047MF	30%	50V
C002	1-161-323-00	CERAMIC	0.001MF	10%	50V
C003	1-123-328-00	ELECT	4.7MF	20%	25V
C004	1-123-332-00	ELECT	47MF	20%	16V
C005	1-161-051-00	CERAMIC	0.01MF	30%	25V
C006	1-123-307-00	ELECT	100MF	20%	10V
C007	1-123-382-00	ELECT	3.3MF	20%	50V
C008	1-161-051-00	CERAMIC	0.01MF	30%	25V
C009	1-161-271-00	CERAMIC	100PF	5%	50V
C010	1-102-945-00	CERAMIC	8PF	1PF	50V
C011	1-161-051-00	CERAMIC	0.01MF	30%	25V
C012	1-161-051-00	CERAMIC	0.01MF	30%	25V
C013	1-123-307-00	ELECT	100MF	20%	10V
C014	1-102-127-00	CERAMIC	0.0068MF	10%	50V
C015	1-161-494-00	CERAMIC	0.022MF	30%	25V
C016	1-161-021-00	CERAMIC	0.047MF	10%	25V
C017	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V
C018	1-123-379-00	ELECT	0.47MF	20%	50V
C019	1-123-307-00	ELECT	100MF	20%	10V
C020	1-161-013-00	CERAMIC	0.01MF	10%	25V
C021	1-123-332-00	ELECT	47MF	20%	16V
C022	1-108-369-00	MYLAR	0.0022MF	10%	100V
C023	1-108-375-00	MYLAR	0.0068MF	10%	100V
C024	1-161-321-00	CERAMIC	680PF	10%	50V
C025	1-123-379-00	ELECT	0.47MF	20%	50V
C026	1-161-010-00	CERAMIC	0.0056MF	10%	25V
C027	1-123-356-00	ELECT	10MF	20%	16V
C028	1-102-820-00	CERAMIC	330PF	5%	50V
C029	1-161-271-00	CERAMIC	100PF	5%	50V
C030	1-102-499-00	CERAMIC	120PF	5%	50V
C031	1-102-962-00	CERAMIC	30PF	5%	50V
C032	1-161-013-00	CERAMIC	0.01MF	10%	25V
C033	1-161-321-00	CERAMIC	680PF	10%	50V
C034	1-161-321-00	CERAMIC	680PF	10%	50V
C035	1-161-256-00	CERAMIC	5.6PF	10%	50V
C036	1-161-266-00	CERAMIC	39PF	5%	50V
C037	1-161-266-00	CERAMIC	39PF	5%	50V
C038	1-161-259-00	CERAMIC	10PF	5%	50V
C039	1-123-332-00	ELECT	47MF	20%	16V
C040	1-123-318-00	ELECT	33MF	20%	16V
C041	1-123-307-00	ELECT	100MF	20%	10V
C043	1-123-318-00	ELECT	33MF	20%	16V
C044	1-123-330-00	ELECT	22MF	20%	16V
C045	1-123-311-00	ELECT	1000MF	20%	10V
C046	1-161-051-00	CERAMIC	0.01MF	30%	25V
C047	1-123-307-00	ELECT	100MF	20%	10V
C048	1-161-013-00	CERAMIC	0.01MF	10%	25V
C049	1-123-305-00	ELECT	33MF	20%	10V
C050	1-108-251-00	MYLAR	0.1MF	5%	50V
C051	1-123-381-00	ELECT	2.2MF	20%	50V
C052	1-161-021-00	CERAMIC	0.047MF	10%	25V
C053	1-161-323-00	CERAMIC	0.001MF	10%	50V
C054	1-102-962-00	CERAMIC	30PF	5%	50V
C055	1-101-882-00	CERAMIC	51PF	5%	50V
C056	1-123-356-00	ELECT	10MF	20%	16V
C057	1-108-591-00	MYLAR	0.033MF	5%	50V
C059	1-161-051-00	CERAMIC	0.01MF	30%	25V
C060	1-123-305-00	ELECT	33MF	20%	10V
C061	1-123-305-00	ELECT	33MF	20%	10V
C064	1-161-021-00	CERAMIC	0.047MF	10%	25V
C066	1-161-005-00	CERAMIC	0.0022MF	10%	25V
C067	1-123-295-00	ELECT	100MF	20%	6.3V
C068	1-161-039-00	CERAMIC	0.001MF	10%	25V
C069	1-161-013-00	CERAMIC	0.01MF	10%	25V
C070	1-123-379-00	ELECT	0.47MF	20%	50V
C071	1-161-063-00	CERAMIC	0.1MF	10%	50V
C072	1-123-356-00	ELECT	10MF	20%	16V
C073	1-123-305-00	ELECT	33MF	20%	10V
C074	1-161-264-00	CERAMIC	27PF	5%	50V
C075	1-102-530-00	CERAMIC	120PF	5%	50V
C076	1-161-263-00	CERAMIC	22PF	5%	50V
C077	1-123-318-00	ELECT	33MF	20%	16V
C079	1-161-021-00	CERAMIC	0.047MF	10%	25V
C080	1-161-051-00	CERAMIC	0.01MF	30%	25V
C081	1-161-051-00	CERAMIC	0.01MF	30%	25V
C082	1-123-332-00	ELECT	47MF	20%	16V
C083	1-123-332-00	ELECT	47MF	20%	16V
C084	1-161-013-00	CERAMIC	0.01MF	10%	25V
C085	1-161-315-00	CERAMIC	220PF	10%	50V
C086	1-161-268-00	CERAMIC	56PF	5%	50V
C087	1-161-269-00	CERAMIC	68PF	5%	50V
C088	1-161-021-00	CERAMIC	0.047MF	10%	25V
C089	1-123-356-00	ELECT	10MF	20%	16V
C090	1-123-333-00	ELECT	100MF	20%	16V
C091	1-161-051-00	CERAMIC	0.01MF	30%	25V
C092	1-161-013-00	CERAMIC	0.01MF	10%	25V
C093	1-161-271-00	CERAMIC	100PF	5%	50V
C094	1-161-271-00	CERAMIC	100PF	5%	50V
C095	1-102-117-00	CERAMIC	820PF	10%	50V
C096	1-161-013-00	CERAMIC	0.01MF	10%	25V
C097	1-161-319-00	CERAMIC	470PF	10%	50V
C098	1-161-051-00	CERAMIC	0.01MF	30%	25V

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Ref.No	Part No	Description			Remark
C099	1-102-962-00	CERAMIC	30PF	5%	50V
C100	1-161-051-00	CERAMIC	0.01MF	30%	25V
C101	1-161-363-00	CERAMIC	11PF	5%	50V
C102	1-102-935-00	CERAMIC	2PF	0.25PF	50V
C103	1-161-494-00	CERAMIC	0.022MF	30%	25V
C104	1-131-404-00	ELECT(SOLID)	0.22MF	10%	25V
C105	1-123-328-00	ELECT	4.7MF	20%	25V
C106	1-161-322-00	CERAMIC	820PF	10%	50V
C107	1-123-356-00	ELECT	10MF	20%	16V
C108	1-123-330-00	ELECT	22MF	20%	16V
C109	1-123-330-00	ELECT	22MF	20%	16V
C110	1-123-381-00	ELECT	2.2MF	20%	50V
C111	1-123-381-00	ELECT	2.2MF	20%	50V
C112	1-123-332-00	ELECT	47MF	20%	16V
C113	1-123-295-00	ELECT	100MF	20%	6.3V
C114	1-161-051-00	CERAMIC	0.01MF	30%	25V
C115	1-102-820-00	CERAMIC	330PF	5%	50V
C116	1-102-980-00	CERAMIC	270PF	5%	50V
C117	1-101-059-00	CERAMIC	510PF	5%	50V
C118	1-102-980-00	CERAMIC	270PF	5%	50V
C119	1-123-306-00	ELECT	47MF	20%	10V
C120	1-123-332-00	ELECT	47MF	20%	16V
C121	1-161-013-00	CERAMIC	0.01MF	10%	25V
C122	1-123-307-00	ELECT	100MF	20%	10V
C123	1-102-962-00	CERAMIC	30PF	5%	50V
C124	1-161-339-00	CERAMIC	24PF	5%	50V
C125	1-161-021-00	CERAMIC	0.047MF	10%	25V
C126	1-161-013-00	CERAMIC	0.01MF	10%	25V
C127	1-161-021-00	CERAMIC	0.047MF	10%	25V
C128	1-123-330-00	ELECT	22MF	20%	16V
C129	1-123-322-00	ELECT	330MF	20%	16V
C130	1-123-306-00	ELECT	47MF	20%	10V
C131	1-123-380-00	ELECT	1MF	20%	50V
C132	1-102-958-00	CERAMIC	20PF	5%	50V
C133	1-123-356-00	ELECT	10MF	20%	16V
C134	1-102-972-00	CERAMIC	91PF	5%	50V
C135	1-161-342-00	CERAMIC	43PF	5%	50V
C136	1-161-272-00	CERAMIC	120PF	5%	50V
C137	1-161-021-00	CERAMIC	0.047MF	10%	25V
C138	1-123-306-00	ELECT	47MF	20%	10V
C139	1-161-051-00	CERAMIC	0.01MF	30%	25V
C140	1-161-051-00	CERAMIC	0.01MF	30%	25V
C141	1-123-332-00	ELECT	47MF	20%	16V
C142	1-161-051-00	CERAMIC	0.01MF	30%	25V
C143	1-123-381-00	ELECT	2.2MF	20%	50V
C144	1-161-013-00	CERAMIC	0.01MF	10%	25V
C145	1-123-296-00	ELECT	220MF	20%	6.3V
C146	1-123-356-00	ELECT	10MF	20%	16V
C147	1-123-330-00	ELECT	22MF	20%	16V
C148	1-102-980-00	CERAMIC	270PF	5%	50V
C149	1-102-823-00	CERAMIC	43PF	5%	50V
C150	1-102-823-00	CERAMIC	43PF	5%	50V
C151	1-102-824-00	CERAMIC	430PF	5%	50V
C152	1-102-976-00	CERAMIC	180PF	5%	50V
C153	1-102-976-00	CERAMIC	180PF	5%	50V
C154	1-101-059-00	CERAMIC	510PF	5%	50V
C155	1-161-317-00	CERAMIC	330PF	10%	50V
C156	1-102-976-00	CERAMIC	180PF	5%	50V
C157	1-161-267-00	CERAMIC	47PF	5%	50V
C158	1-102-981-00	CERAMIC	300PF	5%	50V
C159	1-102-820-00	CERAMIC	330PF	5%	50V
C160	1-161-265-00	CERAMIC	33PF	5%	50V
C161	1-101-361-00	CERAMIC	150PF	5%	50V
C162	1-102-820-00	CERAMIC	330PF	5%	50V
C163	1-108-559-00	MYLAR	0.0015MF	5%	50V
C164	1-102-978-00	CERAMIC	220PF	5%	50V
C165	1-102-951-00	CERAMIC	15PF	5%	50V
C166	1-161-266-00	CERAMIC	39PF	5%	50V
C167	1-161-268-00	CERAMIC	56PF	5%	50V
C168	1-161-494-00	CERAMIC	0.022MF	30%	25V
C169	1-161-021-00	CERAMIC	0.047MF	10%	25V
C170	1-161-269-00	CERAMIC	68PF	5%	50V
C171	1-161-315-00	CERAMIC	220PF	10%	50V
C172	1-161-317-00	CERAMIC	330PF	10%	50V
C173	1-101-884-00	CERAMIC	56PF	5%	50V
C501	1-123-328-00	ELECT	4.7MF	20%	25V
C503	1-123-332-00	ELECT	47MF	20%	16V
C504	1-108-559-00	MYLAR	0.0015MF	5%	50V
C505	1-108-583-00	MYLAR	0.015MF	5%	50V
C506	1-123-382-00	ELECT	3.3MF	20%	50V
C507	1-123-382-00	ELECT	3.3MF	20%	50V
C508	1-123-321-00	ELECT	220MF	20%	16V
C509	1-123-356-00	ELECT	10MF	20%	16V
C510	1-108-251-00	MYLAR	0.1MF	5%	50V
C511	1-108-251-00	MYLAR	0.1MF	5%	50V
C512	1-161-322-00	CERAMIC	820PF	10%	50V
C513	1-102-115-00	CERAMIC	560PF	10%	50V
C514	1-123-382-00	ELECT	3.3MF	20%	50V
C515	1-108-583-00	MYLAR	0.015MF	5%	50V
C516	1-108-807-00	MYLAR	0.018MF	5%	50V
C517	1-123-356-00	ELECT	10MF	20%	16V
C518	1-123-356-00	ELECT	10MF	20%	16V
C519	1-123-333-00	ELECT	100MF	20%	16V
C521	1-123-356-00	ELECT	10MF	20%	16V
C522	1-108-563-00	MYLAR	0.0022MF	5%	50V
C523	1-161-316-00	CERAMIC	270PF	10%	50V
C524	1-123-356-00	ELECT	10MF	20%	16V
C525	1-107-166-00	MICA	62PF	5%	500V
C526	1-123-332-00	ELECT	47MF	20%	16V
C527	1-123-333-00	ELECT	100MF	20%	16V
C528	1-108-381-00	MYLAR	0.022MF	10%	100V
C529	1-129-709-00	FILM	0.0039MF	10%	630V
C530	1-108-383-00	MYLAR	0.033MF	10%	100V
C531	1-161-021-00	CERAMIC	0.047MF	10%	25V
C532	1-123-356-00	ELECT	10MF	20%	16V
C533	1-123-356-00	ELECT	10MF	20%	16V

When indicating parts by reference number, please include the board name.

Ref.No	Part No	Description			Remark
C534	1-102-981-00	CERAMIC	300PF	5%	50V
C536	1-102-074-00	CERAMIC	0.001MF	10%	50V
		FILTER			
CF001	1-527-823-00	FILTER, CERAMIC			
		CONNECTOR			
CN001♦	1-508-910-00	PIN, CONNECTOR 12P			
CN002♦	1-508-797-00	PIN, CONNECTOR 4P			
CN003♦	1-508-797-31	PIN, CONNECTOR 4P			
CN004♦	1-508-797-00	PIN, CONNECTOR 4P			
CN005	1-508-910-00	PIN, CONNECTOR 12P			
CN006♦	1-560-468-00	PIN, CONNECTOR 5P			
		JACK			
CNJ001	1-507-588-32	JACK, PIN, 1P			
CNJ002	1-507-588-32	PIN JACK, 1P			
CNJ501	1-507-678-21	JACK			
CNJ502	1-507-678-21	JACK			
CNJ503	1-507-251-XX	JACK (JM35 M10)			
		DIODE			
D001	=>8-719-911-19	DIODE 1SS119			
D002	=>8-719-911-19	DIODE 1SS119			
D003	=>8-719-911-19	DIODE 1SS119			
D004	=>8-719-911-19	DIODE 1SS119			
D005	=>8-719-911-19	DIODE 1SS119			
D006	=>8-719-911-19	DIODE 1SS119			
D007	=>8-719-911-19	DIODE 1SS119			
D008	=>8-719-911-19	DIODE 1SS119			
D009	=>8-719-911-19	DIODE 1SS119			
D010	8-719-815-55	DIODE 1S1555			
D011	8-719-815-55	DIODE 1S1555			
D012	8-719-815-55	DIODE 1S1555			
D013	8-719-815-55	DIODE 1S1555			
D014	8-719-815-55	DIODE 1S1555			
D015	8-719-815-55	DIODE 1S1555			
D016	8-719-815-55	DIODE 1S1555			
D017	8-719-815-55	DIODE 1S1555			
D018	8-719-815-55	DIODE 1S1555			
D019	8-719-815-55	DIODE 1S1555			
D020	8-719-815-55	DIODE 1S1555			
D021	8-719-815-55	DIODE 1S1555			
D022	=>8-719-911-19	DIODE 1SS119			
D501	=>8-719-911-19	DIODE 1SS119			
D503	=>8-719-911-19	DIODE 1SS119			
D504	=>8-719-100-57	DIODE RD10EB2			
		DELAY LINE			
DL001	1-415-244-00	DELAY LINE (1/2H)			
DL002	1-415-065-00	DELAY LINE			
DL002	1-415-129-00	DELAY LINE			

Ref.No	Part No	Description	Remark
		IC	
IC001	8-751-960-00	IC CX-196	
IC002	8-759-684-78	IC M58478P	
IC003	8-758-220-00	IC CX-822	
IC005	=>8-759-601-87	IC CX-187	
IC006	8-751-880-00	IC CX-188	
IC501	8-759-951-02	IC BA5102	
		COIL	
L001	1-408-462-11	MICRO INDUCTOR 470UH	
L002	1-408-420-00	MICRO INDUCTOR 82UH	
L003	1-408-406-00	MICRO INDUCTOR 5.6UH	
L004	1-408-454-11	MICRO INDUCTOR 100UH	
L005	1-408-455-11	MICRO INDUCTOR 120UH	
L006	1-408-454-11	MICRO INDUCTOR 100UH	
L007	1-407-503-00	MICRO INDUCTOR 8.2MMH	
L008	1-408-419-00	MICRO INDUCTOR 68UH	
L009	1-408-458-11	MICRO INDUCTOR 220UH	
L010	1-407-747-11	MICRO INDUCTOR 56UH	
L011	1-408-450-11	MICRO INDUCTOR 47UH	
L012	1-408-454-11	MICRO INDUCTOR 100UH	
L013	1-408-419-00	MICRO INDUCTOR 68UH	
L014	1-407-168-XX	MICRO INDUCTOR 82UH	
L015	1-408-402-11	MICRO INDUCTOR 2.7UH	
L016	1-407-718-00	MICRO INDUCTOR 1.2MMH	
L017	1-408-411-00	MICRO INDUCTOR 15UH	
L018	1-408-408-00	MICRO INDUCTOR 8.2UH	
L019	1-408-443-11	MICRO INDUCTOR 12UH	
L020	1-408-447-11	MICRO INDUCTOR 27UH	
L021	1-408-442-11	MICRO INDUCTOR 10UH	
L022	1-408-420-00	MICRO INDUCTOR 82UH	
L023	1-408-416-00	MICRO INDUCTOR 39UH	
L024	1-408-455-11	MICRO INDUCTOR 120UH	
L025	1-408-446-11	MICRO INDUCTOR 22UH	
L026	1-408-420-00	MICRO INDUCTOR 82UH	
L027	1-408-424-00	MICRO INDUCTOR 180UH	
L028	1-408-456-11	MICRO INDUCTOR 150UH	
L029	1-407-164-XX	MICRO INDUCTOR 39UH	
L030	1-407-164-XX	MICRO INDUCTOR 39UH	
L031	1-408-456-11	MICRO INDUCTOR 150UH	
L032	1-408-447-11	MICRO INDUCTOR 27UH	
L033	1-407-167-XX	MICRO INDUCTOR 68UH	
L501	1-407-718-00	MICRO INDUCTOR 1.2MMH	
L502	1-407-506-00	MICRO INDUCTOR 15MMH	
		VARIABLE RESISTOR	
LV001	1-408-522-00	COIL, VARIABLE	
LV002	1-408-512-00	COIL (VARIABLE)	
LV501	1-407-240-00	MICRO INDUCTOR 22MMH	
		TRANSISTOR	
Q001	=>8-729-178-54	TRANSISTOR 2SC2785	

When indicating parts by reference number, please include the board name.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

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Ref.No	Part No	Description	Remark
Q002	=>8-729-178-54	TRANSISTOR 2SC2785	
Q003	=>8-729-178-54	TRANSISTOR 2SC2785	
Q004	=>8-729-117-54	TRANSISTOR 2SA1175	
Q005	=>8-729-178-54	TRANSISTOR 2SC2785	
Q006	=>8-729-178-54	TRANSISTOR 2SC2785	
Q007	=>8-729-117-54	TRANSISTOR 2SA1175	
Q008	=>8-729-117-54	TRANSISTOR 2SA1175	
Q009	=>8-729-178-54	TRANSISTOR 2SC2785	
Q010	=>8-729-178-54	TRANSISTOR 2SC2785	
Q013	=>8-729-178-54	TRANSISTOR 2SC2785	
Q014	8-729-178-56	TRANSISTOR 2SC2785-K	
Q016	=>8-729-178-54	TRANSISTOR 2SC2785	
Q017	=>8-729-178-54	TRANSISTOR 2SC2785	
Q018	=>8-729-178-54	TRANSISTOR 2SC2785	
Q019	=>8-729-178-54	TRANSISTOR 2SC2785	
Q020	8-724-375-01	TRANSISTOR 2SC403C-5	
Q021	=>8-729-178-54	TRANSISTOR 2SC2785	
Q022	=>8-729-178-54	TRANSISTOR 2SC2785	
Q023	=>8-729-178-54	TRANSISTOR 2SC2785	
Q024	=>8-729-178-54	TRANSISTOR 2SC2785	
Q025	=>8-729-117-54	TRANSISTOR 2SA1175	
Q026	8-724-375-01	TRANSISTOR 2SC403C-5	
Q027	=>8-729-178-54	TRANSISTOR 2SC2785	
Q028	8-729-384-48	TRANSISTOR 2SA844-C	
Q029	8-724-375-01	TRANSISTOR 2SC403C-5	
Q030	=>8-729-178-54	TRANSISTOR 2SC2785	
Q031	=>8-729-178-54	TRANSISTOR 2SC2785	
Q032	8-729-178-54	TRANSISTOR 2SC2785-F	
Q033	8-729-178-54	TRANSISTOR 2SC2785-F	
Q034	=>8-729-178-54	TRANSISTOR 2SC2785	
Q035	=>8-729-178-54	TRANSISTOR 2SC2785	
Q036	=>8-729-178-54	TRANSISTOR 2SC2785	
Q037	=>8-729-178-54	TRANSISTOR 2SC2785	
Q038	=>8-729-178-54	TRANSISTOR 2SC2785	
Q039	=>8-729-117-54	TRANSISTOR 2SA1175	
Q040	8-729-374-02	TRANSISTOR 2SB740-C	
Q041	=>8-729-117-54	TRANSISTOR 2SA1175	
Q042	8-724-375-01	TRANSISTOR 2SC403C-5	
Q043	=>8-729-117-54	TRANSISTOR 2SA1175	
Q044	=>8-729-117-54	TRANSISTOR 2SA1175	
Q045	8-724-375-01	TRANSISTOR 2SC403C-5	
Q046	=>8-729-117-54	TRANSISTOR 2SA1175	
Q047	=>8-729-117-54	TRANSISTOR 2SA1175	
Q048	=>8-729-117-54	TRANSISTOR 2SA1175	
Q049	8-729-245-83	TRANSISTOR 2SC2458-BL	
Q050	=>8-729-117-54	TRANSISTOR 2SA1175	
Q051	=>8-729-117-54	TRANSISTOR 2SA1175	
Q052	=>8-729-117-54	TRANSISTOR 2SA1175	
Q053	8-724-375-01	TRANSISTOR 2SC403C-5	
Q054	=>8-729-117-54	TRANSISTOR 2SA1175	
Q055	=>8-729-117-54	TRANSISTOR 2SA1175	
Q056	8-729-245-83	TRANSISTOR 2SC2458-BL	
Q057	=>8-729-178-54	TRANSISTOR 2SC2785	
Q058	8-729-178-54	TRANSISTOR 2SC2785-R	
Q059	=>8-729-117-54	TRANSISTOR 2SA1175	
Q502	8-729-178-54	TRANSISTOR 2SC2785-R	
Q503	8-729-178-54	TRANSISTOR 2SC2785-R	
Q504	8-729-178-54	TRANSISTOR 2SC2785-R	
Q505	8-729-178-54	TRANSISTOR 2SC2785-R	
Q506	8-729-177-43	TRANSISTOR 2SD774-K	
Q507	8-729-178-54	TRANSISTOR 2SC2785-R	

RESISTOR

Ref.No	Part No				Remark
R001	1-246-511-00	CARBON	39K	5% 1/4W	
R002	1-246-497-00	CARBON	10K	5% 1/4W	
R003	1-246-461-00	CARBON	330	5% 1/4W	
R004	1-246-491-00	CARBON	5.6K	5% 1/4W	
R005	1-246-451-00	CARBON	120	5% 1/4W	
R006	1-246-472-00	CARBON	910	5% 1/4W	
R007	1-246-461-00	CARBON	330	5% 1/4W	
R008	1-246-485-00	CARBON	3.3K	5% 1/4W	
R009	1-246-521-00	CARBON	100K	5% 1/4W	
R010	1-246-513-00	CARBON	47K	5% 1/4W	
R011	1-246-441-00	CARBON	47	5% 1/4W	
R012	1-246-481-00	CARBON	2.2K	5% 1/4W	
R013	1-202-471-00	COMPOSITION	4.7M	5% 1/4W	
R014	1-246-465-00	CARBON	470	5% 1/4W	
R015	1-246-477-00	CARBON	1.5K	5% 1/4W	
R016	1-246-489-00	CARBON	4.7K	5% 1/4W	
R017	1-246-490-00	CARBON	5.1K	5% 1/4W	
R018	1-246-523-00	CARBON	120K	5% 1/4W	
R019	1-246-478-00	CARBON	1.6K	5% 1/4W	
R020	1-246-505-00	CARBON	22K	5% 1/4W	
R021	1-246-480-00	CARBON	2K	5% 1/4W	
R022	1-246-513-00	CARBON	47K	5% 1/4W	
R023	1-246-475-00	CARBON	1.2K	5% 1/4W	
R024	1-246-531-00	CARBON	270K	5% 1/4W	
R025	1-246-521-00	CARBON	100K	5% 1/4W	
R026	1-246-501-00	CARBON	15K	5% 1/4W	
R027	1-246-523-00	CARBON	120K	5% 1/4W	
R028	1-246-467-00	CARBON	560	5% 1/4W	
R029	1-246-501-00	CARBON	15K	5% 1/4W	
R030	1-246-498-00	CARBON	11K	5% 1/4W	
R031	1-246-497-00	CARBON	10K	5% 1/4W	
R032	1-246-479-00	CARBON	1.8K	5% 1/4W	
R033	1-246-497-00	CARBON	10K	5% 1/4W	
R034	1-246-449-00	CARBON	100	5% 1/4W	
R035	1-246-461-00	CARBON	330	5% 1/4W	
R036	1-246-461-00	CARBON	330	5% 1/4W	
R037	1-246-526-00	CARBON	160K	5% 1/4W	
R038	1-246-545-00	CARBON	1M	5% 1/4W	
R039	1-246-454-00	CARBON	160	5% 1/4W	
R040	1-246-458-00	CARBON	240	5% 1/4W	
R043	1-246-467-00	CARBON	560	5% 1/4W	
R044	1-246-481-00	CARBON	2.2K	5% 1/4W	
R045	1-246-493-00	CARBON	6.8K	5% 1/4W	

When indicating parts by reference number, please include the board name.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Ref.No	Part No	Description				Remark
R056	1-246-519-00	CARBON	82K	5%	1/4W	
R057	1-246-510-00	CARBON	36K	5%	1/4W	
R058	1-246-515-00	CARBON	56K	5%	1/4W	
R059	1-246-497-00	CARBON	10K	5%	1/4W	
R060	1-246-466-00	CARBON	510	5%	1/4W	
R061	1-246-511-00	CARBON	39K	5%	1/4W	
R062	1-246-497-00	CARBON	10K	5%	1/4W	
R063	1-246-470-00	CARBON	750	5%	1/4W	
R064	1-246-473-00	CARBON	1K	5%	1/4W	
R065	1-246-445-00	CARBON	68	5%	1/4W	
R066	1-246-471-00	CARBON	820	5%	1/4W	
R067	1-244-860-00	CARBON	300	5%	1/2W	
R068	1-246-495-00	CARBON	8.2K	5%	1/4W	
R069	1-246-497-00	CARBON	10K	5%	1/4W	
R070	1-246-513-00	CARBON	47K	5%	1/4W	
R071	1-246-491-00	CARBON	5.6K	5%	1/4W	
R073	1-246-501-00	CARBON	15K	5%	1/4W	
R074	1-246-509-00	CARBON	33K	5%	1/4W	
R075	1-246-513-00	CARBON	47K	5%	1/4W	
R076	1-246-489-00	CARBON	4.7K	5%	1/4W	
R077	1-246-489-00	CARBON	4.7K	5%	1/4W	
R078	1-246-497-00	CARBON	10K	5%	1/4W	
R079	1-246-497-00	CARBON	10K	5%	1/4W	
R080	1-246-481-00	CARBON	2.2K	5%	1/4W	
R081	1-246-452-00	CARBON	130	5%	1/4W	
R082	1-246-456-00	CARBON	200	5%	1/4W	
R083	1-246-473-00	CARBON	1K	5%	1/4W	
R085	1-246-495-00	CARBON	8.2K	5%	1/4W	
R086	1-246-471-00	CARBON	820	5%	1/4W	
R087	1-246-497-00	CARBON	10K	5%	1/4W	
R088	1-246-479-00	CARBON	1.8K	5%	1/4W	
R089	1-246-485-00	CARBON	3.3K	5%	1/4W	
R090	1-246-467-00	CARBON	560	5%	1/4W	
R091	1-246-542-00	CARBON	750K	5%	1/4W	
R092	1-246-485-00	CARBON	3.3K	5%	1/4W	
R093	1-210-819-00	COMPOSITION	1.8M	5%	1/4W	
R094	1-246-481-00	CARBON	2.2K	5%	1/4W	
R095	1-246-497-00	CARBON	10K	5%	1/4W	
R096	1-246-484-00	CARBON	3K	5%	1/4W	
R097	1-246-493-00	CARBON	6.8K	5%	1/4W	
R098	1-246-513-00	CARBON	47K	5%	1/4W	
R099	1-246-497-00	CARBON	10K	5%	1/4W	
R100	1-246-489-00	CARBON	4.7K	5%	1/4W	
R101	1-246-491-00	CARBON	5.6K	5%	1/4W	
R102	1-246-490-00	CARBON	5.1K	5%	1/4W	
R103	1-246-477-00	CARBON	1.5K	5%	1/4W	
R104	1-246-467-00	CARBON	560	5%	1/4W	
R105	1-246-481-00	CARBON	2.2K	5%	1/4W	
R106	1-246-521-00	CARBON	100K	5%	1/4W	
R107	1-246-491-00	CARBON	5.6K	5%	1/4W	
R108	1-246-497-00	CARBON	10K	5%	1/4W	
R109	1-246-515-00	CARBON	56K	5%	1/4W	
R110	1-246-473-00	CARBON	1K	5%	1/4W	

Ref.No	Part No	Description				Remark
R111	1-246-497-00	CARBON	10K	5%	1/4W	
R112	1-246-488-00	CARBON	4.3K	5%	1/4W	
R113	1-246-473-00	CARBON	1K	5%	1/4W	
R114	1-246-475-00	CARBON	1.2K	5%	1/4W	
R115	1-246-471-00	CARBON	820	5%	1/4W	
R116	1-246-480-00	CARBON	2K	5%	1/4W	
R117	1-246-509-00	CARBON	33K	5%	1/4W	
R118	1-246-497-00	CARBON	10K	5%	1/4W	
R119	1-246-513-00	CARBON	47K	5%	1/4W	
R120	1-246-512-00	CARBON	43K	5%	1/4W	
R121	1-246-496-00	CARBON	9.1K	5%	1/4W	
R122	1-246-441-00	CARBON	47	5%	1/4W	
R123	1-246-470-00	CARBON	750	5%	1/4W	
R124	1-246-501-00	CARBON	15K	5%	1/4W	
R125	1-246-469-00	CARBON	680	5%	1/4W	
R126	1-246-495-00	CARBON	8.2K	5%	1/4W	
R127	1-246-446-00	CARBON	75	5%	1/4W	
R128	1-246-487-00	CARBON	3.9K	5%	1/4W	
R129	1-246-490-00	CARBON	5.1K	5%	1/4W	
R130	1-246-463-00	CARBON	390	5%	1/4W	
R131	1-246-469-00	CARBON	680	5%	1/4W	
R132	1-246-469-00	CARBON	680	5%	1/4W	
R133	1-246-469-00	CARBON	680	5%	1/4W	
R134	1-246-469-00	CARBON	680	5%	1/4W	
R135	1-246-481-00	CARBON	2.2K	5%	1/4W	
R136	1-246-452-00	CARBON	130	5%	1/4W	
R137	1-246-469-00	CARBON	680	5%	1/4W	
R138	1-246-465-00	CARBON	470	5%	1/4W	
R139	1-246-475-00	CARBON	1.2K	5%	1/4W	
R140	1-246-473-00	CARBON	1K	5%	1/4W	
R141	1-246-465-00	CARBON	470	5%	1/4W	
R142	1-246-473-00	CARBON	1K	5%	1/4W	
R143	1-246-507-00	CARBON	27K	5%	1/4W	
R144	1-246-475-00	CARBON	1.2K	5%	1/4W	
R145	1-246-481-00	CARBON	2.2K	5%	1/4W	
R146	1-246-505-00	CARBON	22K	5%	1/4W	
R147	1-246-473-00	CARBON	1K	5%	1/4W	
R148	1-246-501-00	CARBON	15K	5%	1/4W	
R149	1-246-473-00	CARBON	1K	5%	1/4W	
R150	1-246-482-00	CARBON	2.4K	5%	1/4W	
R151	1-246-470-00	CARBON	750	5%	1/4W	
R152	1-246-489-00	CARBON	4.7K	5%	1/4W	
R153	1-246-481-00	CARBON	2.2K	5%	1/4W	
R154	1-246-470-00	CARBON	750	5%	1/4W	
R155	1-246-509-00	CARBON	33K	5%	1/4W	
R156	1-246-503-00	CARBON	18K	5%	1/4W	
R157	1-246-497-00	CARBON	10K	5%	1/4W	
R158	1-246-505-00	CARBON	22K	5%	1/4W	
R159	1-246-425-00	CARBON	10	5%	1/4W	
R160	1-246-469-00	CARBON	680	5%	1/4W	
R161	1-246-473-00	CARBON	1K	5%	1/4W	
R162	1-246-481-00	CARBON	2.2K	5%	1/4W	
R163	1-246-473-00	CARBON	1K	5%	1/4W	

When indicating parts by reference number, please include the board name.

VA-1 BOARD

Ref.No	Part No	Description				Remark
R164	1-246-505-00	CARBON	22K	5%	1/4W	
R165	1-246-446-00	CARBON	75	5%	1/4W	
R167	1-246-485-00	CARBON	3.3K	5%	1/4W	
R168	1-246-497-00	CARBON	10K	5%	1/4W	
R169	1-246-497-00	CARBON	10K	5%	1/4W	
R170	1-246-514-00	CARBON	51K	5%	1/4W	
R171	1-246-501-00	CARBON	15K	5%	1/4W	
R173	1-246-479-00	CARBON	1.8K	5%	1/4W	
R174	1-246-497-00	CARBON	10K	5%	1/4W	
R175	1-246-505-00	CARBON	22K	5%	1/4W	
R176	1-246-507-00	CARBON	27K	5%	1/4W	
R177	1-246-495-00	CARBON	8.2K	5%	1/4W	
R178	1-246-495-00	CARBON	8.2K	5%	1/4W	
R179	1-246-479-00	CARBON	1.8K	5%	1/4W	
R180	1-246-491-00	CARBON	5.6K	5%	1/4W	
R181	1-246-493-00	CARBON	6.8K	5%	1/4W	
R182	1-246-493-00	CARBON	6.8K	5%	1/4W	
R183	1-246-501-00	CARBON	15K	5%	1/4W	
R184	1-246-467-00	CARBON	560	5%	1/4W	
R185	1-246-498-00	CARBON	11K	5%	1/4W	
R186	1-246-473-00	CARBON	1K	5%	1/4W	
R187	1-246-455-00	CARBON	180	5%	1/4W	
R188	1-246-455-00	CARBON	180	5%	1/4W	
R189	1-246-498-00	CARBON	11K	5%	1/4W	
R190	1-246-466-00	CARBON	510	5%	1/4W	
R191	1-246-453-00	CARBON	150	5%	1/4W	
R192	1-246-465-00	CARBON	470	5%	1/4W	
R193	1-246-479-00	CARBON	1.8K	5%	1/4W	
R194	1-246-481-00	CARBON	2.2K	5%	1/4W	
R195	1-246-459-00	CARBON	270	5%	1/4W	
R196	1-246-489-00	CARBON	4.7K	5%	1/4W	
R197	1-246-461-00	CARBON	330	5%	1/4W	
R198	1-246-477-00	CARBON	1.5K	5%	1/4W	
R199	1-246-484-00	CARBON	3K	5%	1/4W	
R200	1-246-474-00	CARBON	1.1K	5%	1/4W	
R201	1-246-473-00	CARBON	1K	5%	1/4W	
R202	1-246-489-00	CARBON	4.7K	5%	1/4W	
R203	1-246-463-00	CARBON	390	5%	1/4W	
R204	1-246-477-00	CARBON	1.5K	5%	1/4W	
R205	1-246-501-00	CARBON	15K	5%	1/4W	
R206	1-246-441-00	CARBON	47	5%	1/4W	
R207	1-246-511-00	CARBON	39K	5%	1/4W	
R208	1-246-513-00	CARBON	47K	5%	1/4W	
R209	1-246-493-00	CARBON	6.8K	5%	1/4W	
R210	1-246-499-00	CARBON	12K	5%	1/4W	
R211	1-246-457-00	CARBON	220	5%	1/4W	
R212	1-246-462-00	CARBON	360	5%	1/4W	
R213	1-246-508-00	CARBON	30K	5%	1/4W	
R214	1-246-481-00	CARBON	2.2K	5%	1/4W	
R215	1-246-473-00	CARBON	1K	5%	1/4W	
R216	1-246-477-00	CARBON	1.5K	5%	1/4W	
R217	1-246-468-00	CARBON	620	5%	1/4W	
R218	1-246-479-00	CARBON	3K	5%	1/4W	
R219	1-246-473-00	CARBON	1K	5%	1/4W	
R220	1-246-461-00	CARBON	330	5%	1/4W	
R221	1-246-481-00	CARBON	2.2K	5%	1/4W	
R222	1-246-495-00	CARBON	8.2K	5%	1/4W	
R223	1-246-501-00	CARBON	15K	5%	1/4W	
R224	1-246-499-00	CARBON	12K	5%	1/4W	
R225	1-246-473-00	CARBON	1K	5%	1/4W	
R226	1-246-465-00	CARBON	470	5%	1/4W	
R227	1-246-457-00	CARBON	220	5%	1/4W	
R228	1-246-462-00	CARBON	360	5%	1/4W	
R229	1-246-474-00	CARBON	1.1K	5%	1/4W	
R230	1-246-477-00	CARBON	1.5K	5%	1/4W	
R231	1-246-503-00	CARBON	18K	5%	1/4W	
R232	1-246-487-00	CARBON	3.9K	5%	1/4W	
R233	1-246-473-00	CARBON	1K	5%	1/4W	
R234	1-246-481-00	CARBON	2.2K	5%	1/4W	
R235	1-246-464-00	CARBON	430	5%	1/4W	
R236	1-246-471-00	CARBON	820	5%	1/4W	
R237	1-246-459-00	CARBON	270	5%	1/4W	
R238	1-246-467-00	CARBON	560	5%	1/4W	
R239	1-246-484-00	CARBON	3K	5%	1/4W	
R240	1-246-449-00	CARBON	100	5%	1/4W	
R241	1-246-467-00	CARBON	560	5%	1/4W	
R242	1-246-465-00	CARBON	470	5%	1/4W	
R243	1-246-480-00	CARBON	2K	5%	1/4W	
R244	1-246-505-00	CARBON	22K	5%	1/4W	
R245	1-246-497-00	CARBON	10K	5%	1/4W	
R246	1-246-507-00	CARBON	27K	5%	1/4W	
R247	1-246-473-00	CARBON	1K	5%	1/4W	
R248	1-246-513-00	CARBON	47K	5%	1/4W	
R249	1-246-513-00	CARBON	47K	5%	1/4W	
R250	1-246-526-00	CARBON	160K	5%	1/4W	
R251	1-246-495-00	CARBON	8.2K	5%	1/4W	
R252	1-246-449-00	CARBON	100	5%	1/4W	
R253	1-246-479-00	CARBON	1.8K	5%	1/4W	
R502	1-246-425-00	CARBON	10	5%	1/4W	
R503	1-246-455-00	CARBON	180	5%	1/4W	
R504	1-246-528-00	CARBON	200K	5%	1/4W	
R506	1-246-479-00	CARBON	1.8K	5%	1/4W	
R507	1-246-483-00	CARBON	2.7K	5%	1/4W	
R508	1-246-509-00	CARBON	33K	5%	1/4W	
R509	1-246-485-00	CARBON	3.3K	5%	1/4W	
R510	1-246-470-00	CARBON	750	5%	1/4W	
R511	1-246-509-00	CARBON	33K	5%	1/4W	
R514	1-246-459-00	CARBON	270	5%	1/4W	
R515	1-246-490-00	CARBON	5.1K	5%	1/4W	
R516	1-246-501-00	CARBON	15K	5%	1/4W	
R517	1-246-469-00	CARBON	680	5%	1/4W	
R518	1-246-477-00	CARBON	1.5K	5%	1/4W	
R519	1-246-461-00	CARBON	330	5%	1/4W	
R520	1-246-495-00	CARBON	8.2K	5%	1/4W	
R521	1-246-509-00	CARBON	33K	5%	1/4W	
R522	1-246-505-00	CARBON	22K	5%	1/4W	

When indicating parts by reference number, please include the board name.

Ref.No	Part No	Description				Remark
R523	1-246-509-00	CARBON	33K	5%	1/4W	
R524	1-246-509-00	CARBON	33K	5%	1/4W	
R525	1-246-513-00	CARBON	47K	5%	1/4W	
R526	1-246-481-00	CARBON	2.2K	5%	1/4W	
R527	1-246-501-00	CARBON	15K	5%	1/4W	
R528	1-246-505-00	CARBON	22K	5%	1/4W	
R529 ⚠	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R530	1-246-517-00	CARBON	68K	5%	1/4W	
R531	1-246-509-00	CARBON	33K	5%	1/4W	
R532	1-246-457-00	CARBON	220	5%	1/4W	
R533	1-246-473-00	CARBON	1K	5%	1/4W	
R534	1-246-514-00	CARBON	51K	5%	1/4W	
R535	1-246-479-00	CARBON	1.8K	5%	1/4W	
R537	1-246-509-00	CARBON	33K	5%	1/4W	
R538	1-246-490-00	CARBON	5.1K	5%	1/4W	
R539	1-246-505-00	CARBON	22K	5%	1/4W	
R541	1-246-449-00	CARBON	100	5%	1/4W	

VARIABLE RESISTOR

RV001	1-226-851-00	RES, ADJ, CARBON 10K	
RV002	1-226-848-00	RES, ADJ, CARBON 2.2K	
RV003	1-226-851-00	RES, ADJ, CARBON 10K	
RV004	1-226-853-00	RES, ADJ, CARBON 47K	
RV005	1-226-848-00	RES, ADJ, CARBON 2.2K	
RV006	1-226-848-00	RES, ADJ, CARBON 2.2K	
RV007	1-226-852-00	RES, ADJ, CARBON 22K	
RV008	1-226-847-00	RES, ADJ, CARBON 1K	
RV009	1-226-851-00	RES, ADJ, CARBON 10K	
RV010	1-226-847-00	RES, ADJ, CARBON 1K	
RV011	1-226-848-00	RES, ADJ, CARBON 2.2K	
RV012	1-226-846-00	RES, ADJ, CARBON 470	
RV013	1-226-847-00	RES, ADJ, CARBON 1K	
RV014	1-226-847-00	RES, ADJ, CARBON 1K	
RV015	1-226-846-00	RES, ADJ, CARBON 470	
RV016	1-226-846-00	RES, ADJ, CARBON 470	
RV017	1-226-853-00	RES, ADJ, CARBON 47K	
RV018	1-226-846-00	RES, ADJ, CARBON 470	
RV501	1-224-256-XX	RES, ADJ, METAL GLAZE 220K	
RV502	1-226-853-00	RES, ADJ, CARBON 47K	
RV503	1-226-851-00	RES, ADJ, CARBON 10K	

RELAY

RY501	1-515-418-00	RELAY
RY501	1-515-436-00	RELAY

SWITCH

S001	1-552-821-00	SWITCH, SLIDE

TRANSFORMER

T001	1-426-083-00	TRANSFORMER, BAND PASS
T002	1-426-082-00	TRANSFORMER, BAND PASS
T004	1-426-081-00	TRANSFORMER, BAND PASS

Ref.No	Part No	Description	Remark
T005	1-426-078-00	TRANSFORME, VAST AMP	
T006	1-426-076-00	TRANSFORMER, EQUALIZER (1)	
T007	1-426-080-00	TRANSFORMER, BAND PASS	
T008	1-426-079-00	TRANSFORMER, BAND PASS	
T009	1-426-077-00	TRANSFORMER, EQUALIZER (2)	
T501	1-405-670-00	TRANSFOMER, OSCILLATOR	

CRYSTAL

X001	1-527-396-00	CRYSTAL, OSC	
X002	1-527-154-00	********** 003579545MH 0	0

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♦	A-6728-325-A	RP-5 BOARD, COMPLETE **********	
♦	3-671-245-00	CASE (SMALL) (MAIN), SHIELD, RP	
♦	3-671-246-00	CASE(SMALL)(BOTTOM LID), SHIELD	
♦	3-671-249-00	CASE (MAIN), SHIELD, RP	

CAPACITOR

C001	1-123-380-00	ELECT	1MF	20%	50V
C002	1-161-494-00	CERAMIC	0.022MF	30%	25V
C003	1-101-006-00	CERAMIC	0.047MF		50V
C004	1-161-494-00	CERAMIC	0.022MF	30%	25V
C005	1-131-371-00	TANTALUM	10MF	20%	16V
C006	1-161-051-00	CERAMIC	0.01MF	30%	25V
C007	1-161-051-00	CERAMIC	0.01MF	30%	25V
C008	1-123-381-00	ELECT	2.2MF	20%	50V
C009	1-161-047-00	CERAMIC	0.0047MF	30%	50V
C010	1-101-886-00	CERAMIC	62PF	5%	50V
C011	1-101-886-00	CERAMIC	62PF	5%	50V
C012	1-161-494-00	CERAMIC	0.022MF	30%	25V
C013	1-123-356-00	ELECT	10MF	20%	16V
C014	1-161-319-00	CERAMIC	470PF	10%	50V
C015	1-161-271-00	CERAMIC	100PF	5%	50V
C016	1-161-051-00	CERAMIC	0.01MF	30%	25V
C017	1-123-380-00	ELECT	1MF	20%	50V
C018	1-101-006-00	CERAMIC	0.047MF		50V
C019	1-161-494-00	CERAMIC	0.022MF	30%	25V
C020	1-161-494-00	CERAMIC	0.022MF	30%	25V
C021	1-161-494-00	CERAMIC	0.022MF	30%	25V
C022	1-161-317-00	CERAMIC	330PF	10%	50V
C023	1-131-371-00	TANTALUM	10MF	20%	16V
C024	1-161-051-00	CERAMIC	0.01MF	30%	25V
C025	1-161-051-00	CERAMIC	0.01MF	30%	25V
C026	1-101-005-00	CERAMIC	0.022MF		50V
C027	1-123-318-00	ELECT	33MF	20%	16V
C028	1-161-051-00	CERAMIC	0.01MF	30%	25V
C029	1-123-379-00	ELECT	0.47MF	20%	50V
C030	1-102-808-00	CERAMIC	6PF	1PF	50V
C031	1-161-262-00	CERAMIC	18PF	5%	50V
C032	1-161-262-00	CERAMIC	18PF	5%	50V
C033	1-161-255-00	CERAMIC	4.7PF	10%	50V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

• Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

RP-5 BOARD

Ref.No	Part No	Description			Remark
C034	1-123-296-00	ELECT	220MF	20%	6.3V
C035	1-123-380-00	ELECT	1MF	20%	50V
C036	1-161-271-00	CERAMIC	100PF	5%	50V
C037	1-161-272-00	CERAMIC	120PF	5%	50V
C038	1-123-307-00	ELECT	100MF	20%	10V
C039	1-161-006-00	CERAMIC	0.0027MF	10%	25V
C040	1-161-004-00	CERAMIC	0.0018MF	10%	25V
C041	1-123-296-00	ELECT	220MF	20%	6.3V
C042	1-123-356-00	ELECT	10MF	20%	16V
C043	1-123-356-00	ELECT	10MF	20%	16V
C044	1-161-051-00	CERAMIC	0.01MF	30%	25V
C045	1-123-332-00	ELECT	47MF	20%	16V
C046	1-161-017-00	CERAMIC	0.022MF	10%	25V
C047	1-123-332-00	ELECT	47MF	20%	16V
C048	1-161-051-00	CERAMIC	0.01MF	30%	25V
C049	1-102-529-00	CERAMIC	100PF	5%	50V
C050	1-161-051-00	CERAMIC	0.01MF	30%	25V
C051	1-161-051-00	CERAMIC	0.01MF	30%	25V
C052	1-161-263-00	CERAMIC	22PF	5%	50V
C053	1-161-051-00	CERAMIC	0.01MF	30%	25V
C054	1-161-051-00	CERAMIC	0.01MF	30%	25V
C055	1-161-021-00	CERAMIC	0.047MF	10%	25V
C056	1-161-021-00	CERAMIC	0.047MF	10%	25V

CONNECTOR

CN001♦	1-508-797-00	PIN, CONNECTOR 4P
CN002♦	1-508-845-00	PIN, CONNECTOR 6P
CN003♦	1-508-910-00	PIN, CONNECTOR 12P
CN004♦	1-508-847-00	PIN, CONNECTOR 4P

DIODE

D001	=>8-719-911-19	DIODE 1SS119
D002	=>8-719-911-19	DIODE 1SS119
D003	=>8-719-911-19	DIODE 1SS119
D004	=>8-719-911-19	DIODE 1SS119
D005	=>8-719-911-19	DIODE 1SS119
D006	=>8-719-911-19	DIODE 1SS119
D007	=>8-719-911-19	DIODE 1SS119
D008	=>8-719-911-19	DIODE 1SS119
D009	=>8-719-911-19	DIODE 1SS119

DELAY LINE

DL001	1-415-159-00	DELAY LINE (1H)
DL001	1-415-159-00	DELAY LINE (1H)

IC

IC001	8-751-340-00	IC CX-134A
IC002	8-751-350-00	IC CX-135

COIL

L001	1-408-029-00	MICRO INDUCTOR 0.56UH
L002	1-408-029-00	MICRO INDUCTOR 0.56UH
L003	1-408-158-00	MICRO INDUCTOR 6.8MMH

Ref.No	Part No	Description	Remark
L004	1-408-158-00	MICRO INDUCTOR 6.8MMH	
L005	1-408-443-11	MICRO INDUCTOR 12UH	
L006	1-408-443-11	MICRO INDUCTOR 12UH	
L007	1-408-455-11	MICRO INDUCTOR 120UH	
L008	1-407-717-00	MICRO INDUCTOR 1MMH	
L009	1-408-442-11	MICRO INDUCTOR 10UH	
L010	1-408-424-00	MICRO INDUCTOR 180UH	
L011	1-408-458-11	MICRO INDUCTOR 220UH	
L012	1-408-424-00	MICRO INDUCTOR 180UH	
L013	1-408-456-11	MICRO INDUCTOR 150UH	
L014	1-408-445-11	MICRO INDUCTOR 18UH	
L015	1-408-445-11	MICRO INDUCTOR 18UH	

TRANSISTOR

Q001	=>8-729-178-54	TRANSISTOR 2SC2785	
Q002	=>8-765-422-00	TRANSISTOR 2SK152-2	
Q003	=>8-729-178-54	TRANSISTOR 2SC2785	
Q004	=>8-729-178-54	TRANSISTOR 2SC2785	
Q005	=>8-765-422-00	TRANSISTOR 2SK152-2	
Q006	=>8-729-178-54	TRANSISTOR 2SC2785	
Q007	=>8-729-178-54	TRANSISTOR 2SC2785	
Q008	=>8-729-384-48	TRANSISTOR 2SA844	
Q009	=>8-729-117-54	TRANSISTOR 2SA1175	
Q010	=>8-729-178-54	TRANSISTOR 2SC2785	
Q011	=>8-724-375-01	TRANSISTOR 2SC403C	
Q012	8-729-384-48	TRANSISTOR 2SA844-C	
Q013	8-724-375-01	TRANSISTOR 2SC403C-5	
Q014	8-724-375-01	TRANSISTOR 2SC403C-5	

RESISTOR

R001	1-246-485-00	CARBON	3.3K	5%	1/4W	
R002	1-246-463-00	CARBON	390	5%	1/4W	
R003	1-246-497-00	CARBON	10K	5%	1/4W	
R004	1-246-468-00	CARBON	620	5%	1/4W	
R005	1-246-463-00	CARBON	390	5%	1/4W	
R006	1-246-497-00	CARBON	10K	5%	1/4W	
R007	1-246-449-00	CARBON	100	5%	1/4W	
R008	1-246-491-00	CARBON	5.6K	5%	1/4W	
R009	1-246-464-00	CARBON	430	5%	1/4W	
R010	1-246-421-00	CARBON	6.8	5%	1/4W	
R011	1-246-457-00	CARBON	220	5%	1/4W	
R012 ⚠	1-247-028-00	CARBON	8.2	5%	1/8W	F
R013	1-246-481-00	CARBON	2.2K	5%	1/4W	
R014	1-246-481-00	CARBON	2.2K	5%	1/4W	
R015	1-246-481-00	CARBON	2.2K	5%	1/4W	
R016	1-246-481-00	CARBON	2.2K	5%	1/4W	
R017	1-246-473-00	CARBON	1K	5%	1/4W	
R018	1-246-473-00	CARBON	1K	5%	1/4W	
R019	1-246-467-00	CARBON	560	5%	1/4W	
R020	1-246-475-00	CARBON	1.2K	5%	1/4W	
R021	1-246-491-00	CARBON	5.6K	5%	1/4W	
R022	1-246-497-00	CARBON	10K	5%	1/4W	
R023	1-246-463-00	CARBON	390	5%	1/4W	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

• =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

• Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

When indicating parts by reference number, please include the board name.

RP-5 BOARD | **SS-9 BOARD**

Ref.No	Part No	Description				Remark
R024	1-246-485-00	CARBON	3.3K	5%	1/4W	
R025	1-246-497-00	CARBON	10K	5%	1/4W	
R026	1-246-463-00	CARBON	390	5%	1/4W	
R027	1-246-468-00	CARBON	620	5%	1/4W	
R028	1-246-473-00	CARBON	1K	5%	1/4W	
R029	1-246-491-00	CARBON	5.6K	5%	1/4W	
R030	1-246-468-00	CARBON	620	5%	1/4W	
R031	1-246-481-00	CARBON	2.2K	5%	1/4W	
R032	1-246-489-00	CARBON	4.7K	5%	1/4W	
R033	1-246-451-00	CARBON	120	5%	1/4W	
R034	1-246-509-00	CARBON	33K	5%	1/4W	
R035 ⚠	1-247-028-00	CARBON	8.2	5%	1/8W	F
R036 ⚠	1-247-028-00	CARBON	8.2	5%	1/8W	F
R037	1-246-502-00	CARBON	16K	5%	1/4W	
R038	1-246-485-00	CARBON	3.3K	5%	1/4W	
R039	1-246-473-00	CARBON	1K	5%	1/4W	
R040	1-246-469-00	CARBON	680	5%	1/4W	
R041	1-246-463-00	CARBON	390	5%	1/4W	
R042	1-246-519-00	CARBON	82K	5%	1/4W	
R043	1-246-497-00	CARBON	10K	5%	1/4W	
R044	1-246-464-00	CARBON	430	5%	1/4W	
R045	1-246-515-00	CARBON	56K	5%	1/4W	
R046	1-246-422-00	CARBON	7.5	5%	1/4W	
R047 ⚠	1-211-929-00	CARBON	82	5%	1/8W	F
R048	1-246-497-00	CARBON	10K	5%	1/4W	
R049	1-246-477-00	CARBON	1.5K	5%	1/4W	
R050	1-246-477-00	CARBON	1.5K	5%	1/4W	
R051	1-246-449-00	CARBON	100	5%	1/4W	
R052 ⚠	1-211-421-00	CARBON	39	5%	1/8W	F
R053	1-246-475-00	CARBON	1.2K	5%	1/4W	
R054	1-246-485-00	CARBON	3.3K	5%	1/4W	
R055	1-246-473-00	CARBON	1K	5%	1/4W	
R056	1-246-505-00	CARBON	22K	5%	1/4W	
R057	1-246-521-00	CARBON	100K	5%	1/4W	
R058	1-246-496-00	CARBON	9.1K	5%	1/4W	
R059	1-246-500-00	CARBON	13K	5%	1/4W	
R060	1-246-473-00	CARBON	1K	5%	1/4W	
R061	1-246-469-00	CARBON	680	5%	1/4W	
R062	1-246-441-00	CARBON	47	5%	1/4W	
R063	1-246-499-00	CARBON	12K	5%	1/4W	
R064	1-246-489-00	CARBON	4.7K	5%	1/4W	
R065	1-246-481-00	CARBON	2.2K	5%	1/4W	
R066	1-246-465-00	CARBON	470	5%	1/4W	
R067	1-246-480-00	CARBON	2K	5%	1/4W	
R068	1-246-491-00	CARBON	5.6K	5%	1/4W	
R069	1-246-487-00	CARBON	3.9K	5%	1/4W	
R070	1-246-485-00	CARBON	3.3K	5%	1/4W	
R071	1-246-459-00	CARBON	270	5%	1/4W	
R072	1-246-449-00	CARBON	100	5%	1/4W	
R073	1-246-459-00	CARBON	270	5%	1/4W	
R074	1-246-467-00	CARBON	560	5%	1/4W	
R075	1-246-501-00	CARBON	15K	5%	1/4W	
R076	1-246-453-00	CARBON	150	5%	1/4W	
R077	1-246-503-00	CARBON	18K	5%	1/4W	
R078	1-246-477-00	CARBON	1.5K	5%	1/4W	
R079	1-246-449-00	CARBON	100	5%	1/4W	
R080	1-246-465-00	CARBON	470	5%	1/4W	
R081	1-246-497-00	CARBON	10K	5%	1/4W	

VARIABLE RESISTOR

RV001	1-226-847-00	RES, ADJ, CARBON 1K	
RV002	1-226-847-00	RES, ADJ, CARBON 1K	
RV003	1-226-848-00	RES, ADJ, CARBON 2.2K	
RV004	1-226-850-00	RES, ADJ, CARBON 4.7K	
RV005	1-226-847-00	RES, ADJ, CARBON 1K	
RV006	1-226-849-31	RES, ADJ, CARBON 3.3K	
RV007	1-226-847-00	RES, ADJ, CARBON 1K	

TRANSFORMER

T001	1-427-455-00	TRANSFORMER, I/O PUT
T002	1-427-455-00	TRANSFORMER, I/O PUT

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♦	A-6713-115-A	SS-9 BOARD, COMPLETE
		**********
♦	3-655-214-00	CLIP, CABLE

CAPACITOR

C001	1-101-006-00	CERAMIC	0.047MF		50V
C002	1-123-901-00	ELECT	2.2MF	20%	50V
C004	1-130-474-00	MYLAR	0.0018MF	5%	50V
C005	1-123-379-00	ELECT	0.47MF	20%	50V
C006	1-101-006-00	CERAMIC	0.047MF		50V
C007	1-127-433-51	ELECT(SOLID)	0.1MF	10%	16V
C008	1-131-398-00	ELECT(SOLID)	0.22MF	10%	16V
C009	1-130-477-00	MYLAR	0.0033MF	5%	50V
C010	1-127-436-51	ELECT(SOLID)	0.33MF	10%	16V
C011	1-127-436-51	ELECT(SOLID)	0.33MF	10%	16V
C012	1-123-356-00	ELECT	10MF	20%	16V
C013	1-123-296-00	ELECT	220MF	20%	6.3V
C014	1-161-047-00	CERAMIC	0.0047MF	30%	50V
C015	1-161-047-00	CERAMIC	0.0047MF	30%	50V
C016	1-127-437-51	ELECT(SOLID)	0.47MF	10%	16V
C017	1-123-328-00	ELECT	4.7MF	20%	25V
C018	1-131-413-00	ELECT(SOLID)	1MF	10%	16V
C019	1-101-006-00	CERAMIC	0.047MF		50V
C020	1-123-901-00	ELECT	2.2MF	20%	50V
C022	1-101-006-00	CERAMIC	0.047MF		50V
C023	1-123-296-00	ELECT	220MF	20%	6.3V
C024	1-123-356-00	ELECT	10MF	20%	16V
C025	1-123-356-00	ELECT	10MF	20%	16V
C026	1-123-333-00	ELECT	100MF	20%	16V
C027	1-123-298-00	ELECT	470MF	20%	6.3V
C028	1-161-265-00	CERAMIC	33PF	5%	50V
C029	1-161-494-00	CERAMIC	0.022MF	30%	25V

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

• Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

SS-9 BOARD

Ref.No	Part No	Description				Remark
C030	1-130-491-51	MYLAR	0.047MF	5%	50V	
C031	1-123-381-00	ELECT	2.2MF	20%	50V	
C032	1-123-332-00	ELECT	47MF	20%	16V	
C033	1-123-330-00	ELECT	22MF	20%	16V	
C034	1-123-381-00	ELECT	2.2MF	20%	50V	
C036	1-123-330-00	ELECT	22MF	20%	16V	
C037	1-123-328-00	ELECT	4.7MF	20%	25V	
C038	1-123-328-00	ELECT	4.7MF	20%	25V	
C039	1-123-381-00	ELECT	2.2MF	20%	50V	
C040	1-101-006-00	CERAMIC	0.047MF		50V	
C041	1-123-356-00	ELECT	10MF	20%	16V	
C042	1-130-487-51	MYLAR	0.022MF	5%	50V	
C043	1-130-487-51	MYLAR	0.022MF	5%	50V	
C044	1-127-433-51	ELECT(SOLID)	0.1MF	10%	16V	
C045	1-161-323-00	CERAMIC	0.001MF	10%	50V	
C046	1-101-006-00	CERAMIC	0.047MF		50V	
C047	1-123-901-00	ELECT	2.2MF	20%	50V	
C049	1-101-006-00	CERAMIC	0.047MF		50V	
C050	1-127-437-51	ELECT(SOLID)	0.47MF	10%	16V	
C051	1-123-333-00	ELECT	100MF	20%	16V	
C052	1-130-493-51	MYLAR	0.068MF	5%	50V	
C053	1-161-323-00	CERAMIC	0.001MF	10%	50V	
C054	1-131-413-00	ELECT(SOLID)	1MF	10%	16V	
C055	1-123-379-00	ELECT	0.47MF	20%	50V	
C056	1-101-006-00	CERAMIC	0.047MF		50V	
C057	1-161-051-00	CERAMIC	0.01MF	30%	25V	
C058	1-127-433-51	ELECT(SOLID)	0.1MF	10%	16V	
C059	1-161-323-00	CERAMIC	0.001MF	10%	50V	
C060	1-127-436-51	ELECT(SOLID)	0.33MF	10%	16V	
C061	1-131-415-00	ELECT(SOLID)	0.68MF	10%	16V	
C062	1-161-013-00	CERAMIC	0.01MF	10%	25V	
C063	1-127-437-51	ELECT(SOLID)	0.47MF	10%	16V	
C064	1-123-382-00	ELECT	3.3MF	20%	50V	
C065	1-123-318-00	ELECT	33MF	20%	16V	
C066	1-108-571-00	MYLAR	0.0047MF	5%	50V	
C067	1-161-323-00	CERAMIC	0.001MF	10%	50V	
C068	1-101-004-00	CERAMIC	0.01MF		50V	
C069	1-161-323-00	CERAMIC	0.001MF	10%	50V	
C070	1-123-328-00	ELECT	4.7MF	20%	25V	
C071	1-161-265-00	CERAMIC	33PF	5%	50V	
C072	1-108-573-00	MYLAR	0.0056MF	5%	50V	
C501	1-102-980-00	CERAMIC	270PF	5%	50V	
C502	1-102-824-00	CERAMIC	430PF	5%	50V	
C504	1-123-380-00	ELECT	1MF	20%	50V	
C505	1-123-379-00	ELECT	0.47MF	20%	50V	
C506	1-123-380-00	ELECT	1MF	20%	50V	
C507	1-123-380-00	ELECT	1MF	20%	50V	
C508	1-123-356-00	ELECT	10MF	20%	16V	
C509	1-161-051-00	CERAMIC	0.01MF	30%	25V	
C510	1-161-323-00	CERAMIC	0.001MF	10%	50V	
C511	1-161-323-00	CERAMIC	0.001MF	10%	50V	

Ref.No	Part No	Description	Remark
		FILTER	
CF501	1-527-532-00	OSCILLATOR, CERAMIC	
		CONNECTOR	
CN002♦	1-508-742-00	PIN, CONNECTOR 3P	
CN003♦	1-508-742-00	PIN, CONNECTOR 3P	
CN004♦	1-508-742-00	PIN, CONNECTOR 3P	
CN005♦	1-508-742-00	PIN, CONNECTOR 3P	
CN006♦	1-508-845-00	PIN, CONNECTOR 6P	
CN007♦	1-508-744-00	PIN, CONNECTOR 10P	
CN008♦	1-508-744-00	PIN, CONNECTOR 10P	
CN009	1-508-910-00	PIN, CONNECTOR 12P	
CN010♦	1-508-910-00	PIN, CONNECTOR 12P	
CN011♦	1-508-742-00	PIN, CONNECTOR 3P	
		DIODE	
D001	8-719-911-19	DIODE 1SS119	
D002	8-719-911-19	DIODE 1SS119	
D003	8-719-911-19	DIODE 1SS119	
D004	8-719-911-19	DIODE 1SS119	
D005	8-719-911-19	DIODE 1SS119	
D006	8-719-911-19	DIODE 1SS119	
D007	8-719-911-19	DIODE 1SS119	
D008	8-719-911-19	DIODE 1SS119	
D009	8-719-911-19	DIODE 1SS119	
D010	8-719-911-19	DIODE 1SS119	
D012	8-719-911-19	DIODE 1SS119	
D013	8-719-911-19	DIODE 1SS119	
D014	8-719-911-19	DIODE 1SS119	
D015	8-719-911-19	DIODE 1SS119	
D016	8-719-911-19	DIODE 1SS119	
D017	8-719-911-19	DIODE 1SS119	
D018	8-719-911-19	DIODE 1SS119	
D019	=>8-719-100-68	DIODE RD13EB2	
D020	8-719-911-19	DIODE 1SS119	
D021	=>8-719-100-38	DIODE RD6.2EB2	
D022	8-719-911-19	DIODE 1SS119	
D023	8-719-911-19	DIODE 1SS119	
D024	8-719-911-19	DIODE 1SS119	
D025	=>8-719-815-55	DIODE 1S1555	
D026	8-719-911-19	DIODE 1SS119	
D028	=>8-719-815-55	DIODE 1S1555	
D029	=>8-719-815-55	DIODE 1S1555	
D501	8-719-200-02	DIODE 10E-2	
D502	8-719-200-02	DIODE 10E-2	
D503	8-719-911-19	DIODE 1SS119	
D504	=>8-719-100-44	DIODE RD7.5EB2	
D506	8-719-911-19	DIODE 1SS119	
D507	=>8-719-100-35	DIODE RD5.6EB2	
D508	8-719-911-19	DIODE 1SS119	
D509	=>8-719-100-44	DIODE RD7.5EB2	
D510	8-719-911-19	DIODE 1SS119	

When indicating parts by reference number, please include the board name.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref.No	Part No	Description	Remark
D511	8-719-911-19	DIODE 1SS119	
D512	8-719-911-19	DIODE 1SS119	
D513	8-719-911-19	DIODE 1SS119	
D515	8-719-911-19	DIODE 1SS119	
D516	8-719-911-19	DIODE 1SS119	
D517	=>8-719-100-44	DIODE RD7.5EB2	
		IC	
IC001	8-751-430-00	IC CX-143A	
IC002	8-759-271-20	IC TA7120P-C	
IC003	=>8-759-601-86	IC CX186	
IC004	8-759-100-06	IC UPC4556C	
IC501	8-759-131-49	IC UPD553C-149	
		TRANSISTOR	
Q001	8-729-178-54	TRANSISTOR 2SC2785-R	
Q002	8-729-178-54	TRANSISTOR 2SC2785-R	
Q003	8-729-178-54	TRANSISTOR 2SC2785-R	
Q004	8-729-178-54	TRANSISTOR 2SC2785-R	
Q005	8-729-178-54	TRANSISTOR 2SC2785-R	
Q006	8-729-178-54	TRANSISTOR 2SC2785-R	
Q007	8-729-178-54	TRANSISTOR 2SC2785-R	
Q008	8-729-178-54	TRANSISTOR 2SC2785-R	
Q009	=>8-729-117-54	TRANSISTOR 2SA1175	
Q010	=>8-729-117-54	TRANSISTOR 2SA1175	
Q011	8-729-178-54	TRANSISTOR 2SC2785-R	
Q012	8-729-178-54	TRANSISTOR 2SC2785-R	
Q013	8-729-178-54	TRANSISTOR 2SC2785-R	
Q014	8-729-178-54	TRANSISTOR 2SC2785-R	
Q015	8-729-178-54	TRANSISTOR 2SC2785-R	
Q016	8-729-374-02	TRANSISTOR 2SB740-C	
Q017	=>8-729-117-54	TRANSISTOR 2SA1175	
Q018	8-729-178-54	TRANSISTOR 2SC2785-R	
Q019	=>8-729-117-54	TRANSISTOR 2SA1175	
Q020	8-729-178-54	TRANSISTOR 2SC2785-R	
Q021	8-729-178-54	TRANSISTOR 2SC2785-R	
Q022	8-729-178-54	TRANSISTOR 2SC2785-R	
Q023	=>8-729-117-54	TRANSISTOR 2SA1175	
Q024	8-729-178-54	TRANSISTOR 2SC2785-R	
Q025	8-729-178-54	TRANSISTOR 2SC2785-R	
Q026	8-729-178-54	TRANSISTOR 2SC2785-R	
Q028	8-729-178-54	TRANSISTOR 2SC2785-R	
Q029	8-729-178-54	TRANSISTOR 2SC2785-R	
Q030	=>8-729-117-54	TRANSISTOR 2SA1175	
Q032	=>8-729-117-54	TRANSISTOR 2SA1175	
Q033	8-729-178-54	TRANSISTOR 2SC2785-R	
Q501	8-729-117-54	TRANSISTOR 2SA1175-H	
Q502	8-729-178-54	TRANSISTOR 2SC2785-R	
Q503	8-729-178-54	TRANSISTOR 2SC2785-R	
Q504	8-729-178-54	TRANSISTOR 2SC2785-R	
Q505	8-729-178-54	TRANSISTOR 2SC2785-R	
Q506	8-729-178-54	TRANSISTOR 2SC2785-R	
Q507	8-729-178-54	TRANSISTOR 2SC2785-R	
Q508	8-729-178-54	TRANSISTOR 2SC2785-R	
Q509	=>8-729-117-54	TRANSISTOR 2SA1175	
Q510	8-729-374-02	TRANSISTOR 2SB740-C	
Q511	=>8-729-117-54	TRANSISTOR 2SA1175	
Q512	=>8-729-117-54	TRANSISTOR 2SA1175	
Q513	=>8-729-117-54	TRANSISTOR 2SA1175	
Q514	=>8-729-117-54	TRANSISTOR 2SA1175	
Q515	8-729-178-54	TRANSISTOR 2SC2785-R	
Q516	8-729-178-54	TRANSISTOR 2SC2785-R	
Q517	8-729-178-54	TRANSISTOR 2SC2785-R	
Q518	8-729-178-54	TRANSISTOR 2SC2785-R	
Q519	8-729-178-54	TRANSISTOR 2SC2785-R	
Q520	8-729-178-54	TRANSISTOR 2SC2785-R	
Q521	8-729-178-54	TRANSISTOR 2SC2785-R	
Q522	8-729-178-54	TRANSISTOR 2SC2785-R	
Q523	8-729-178-54	TRANSISTOR 2SC2785-R	
Q526	=>8-729-117-54	TRANSISTOR 2SA1175	
Q527	8-729-178-54	TRANSISTOR 2SC2785-R	
Q528	8-729-117-54	TRANSISTOR 2SA1175-H	
		RESISTOR	
R69	1-246-449-00	CARBON 100 5% 1/4W	
R001	1-246-475-00	CARBON 1.2K 5% 1/4W	
R002	1-246-497-00	CARBON 10K 5% 1/4W	
R003	1-246-509-00	CARBON 33K 5% 1/4W	
R004	1-246-491-00	CARBON 5.6K 5% 1/4W	
R005	1-246-489-00	CARBON 4.7K 5% 1/4W	
R006	1-246-545-00	CARBON 1M 5% 1/4W	
R007	1-246-507-00	CARBON 27K 5% 1/4W	
R008	1-246-497-00	CARBON 10K 5% 1/4W	
R009	1-246-490-00	CARBON 5.1K 5% 1/4W	
R010	1-246-509-00	CARBON 33K 5% 1/4W	
R011	1-246-517-00	CARBON 68K 5% 1/4W	
R012	1-246-473-00	CARBON 1K 5% 1/4W	
R013	1-246-501-00	CARBON 15K 5% 1/4W	
R014	1-246-520-00	CARBON 91K 5% 1/4W	
R015	1-246-485-00	CARBON 3.3K 5% 1/4W	
R016	1-246-513-00	CARBON 47K 5% 1/4W	
R017	1-246-513-00	CARBON 47K 5% 1/4W	
R018	1-246-513-00	CARBON 47K 5% 1/4W	
R019	1-246-485-00	CARBON 3.3K 5% 1/4W	
R020	1-246-485-00	CARBON 3.3K 5% 1/4W	
R021	1-246-505-00	CARBON 22K 5% 1/4W	
R022	1-246-501-00	CARBON 15K 5% 1/4W	
R023	1-246-509-00	CARBON 33K 5% 1/4W	
R024	1-246-489-00	CARBON 4.7K 5% 1/4W	
R025	1-246-518-00	CARBON 75K 5% 1/4W	
R026	1-246-489-00	CARBON 4.7K 5% 1/4W	
R027	1-246-509-00	CARBON 33K 5% 1/4W	
R028	1-246-501-00	CARBON 15K 5% 1/4W	
R029	1-246-505-00	CARBON 22K 5% 1/4W	
R030	1-246-469-00	CARBON 680 5% 1/4W	
R031	1-246-501-00	CARBON 15K 5% 1/4W	

When indicating parts by reference number, please include the board name.

· =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

SS-9 BOARD

Ref.No	Part No	Description				Remark
R032	1-246-497-00	CARBON	10K	5%	1/4W	
R033	1-246-535-00	CARBON	390K	5%	1/4W	
R034	1-246-497-00	CARBON	10K	5%	1/4W	
R035	1-246-459-00	CARBON	270	5%	1/4W	
R036	1-246-485-00	CARBON	3.3K	5%	1/4W	
R037	1-246-521-00	CARBON	100K	5%	1/4W	
R038	1-246-510-00	CARBON	36K	5%	1/4W	
R039	1-246-516-00	CARBON	62K	5%	1/4W	
R040	1-246-521-00	CARBON	100K	5%	1/4W	
R041	1-246-521-00	CARBON	100K	5%	1/4W	
R042	1-246-521-00	CARBON	100K	5%	1/4W	
R043	1-246-489-00	CARBON	4.7K	5%	1/4W	
R044	1-246-509-00	CARBON	33K	5%	1/4W	
R045	1-246-521-00	CARBON	100K	5%	1/4W	
R046	1-246-505-00	CARBON	22K	5%	1/4W	
R047	1-246-489-00	CARBON	4.7K	5%	1/4W	
R048	1-246-514-00	CARBON	51K	5%	1/4W	
R049	1-246-449-00	CARBON	100	5%	1/4W	
R050	1-246-477-00	CARBON	1.5K	5%	1/4W	
R051	1-246-473-00	CARBON	1K	5%	1/4W	
R052	1-246-511-00	CARBON	39K	5%	1/4W	
R053	1-246-501-00	CARBON	15K	5%	1/4W	
R054	1-246-473-00	CARBON	1K	5%	1/4W	
R055	1-246-515-00	CARBON	56K	5%	1/4W	
R056	1-246-527-00	CARBON	180K	5%	1/4W	
R057	1-246-471-00	CARBON	820	5%	1/4W	
R058	1-246-477-00	CARBON	1.5K	5%	1/4W	
R059	1-246-462-00	CARBON	360	5%	1/4W	
R060	1-246-483-00	CARBON	2.7K	5%	1/4W	
R061	1-246-485-00	CARBON	3.3K	5%	1/4W	
R062	1-246-443-00	CARBON	56	5%	1/4W	
R063	1-246-501-00	CARBON	15K	5%	1/4W	
R064	1-246-521-00	CARBON	100K	5%	1/4W	
R065	1-246-495-00	CARBON	8.2K	5%	1/4W	
R066	1-246-513-00	CARBON	47K	5%	1/4W	
R067	1-246-505-00	CARBON	22K	5%	1/4W	
R068	1-246-507-00	CARBON	27K	5%	1/4W	
R070	1-246-497-00	CARBON	10K	5%	1/4W	
R071	1-246-497-00	CARBON	10K	5%	1/4W	
R073	1-246-485-00	CARBON	3.3K	5%	1/4W	
R074	1-246-515-00	CARBON	56K	5%	1/4W	
R075	1-246-513-00	CARBON	47K	5%	1/4W	
R076	1-246-485-00	CARBON	3.3K	5%	1/4W	
R077	1-246-509-00	CARBON	33K	5%	1/4W	
R078	1-246-516-00	CARBON	62K	5%	1/4W	
R079	1-246-497-00	CARBON	10K	5%	1/4W	
R080	1-246-489-00	CARBON	4.7K	5%	1/4W	
R081	1-246-513-00	CARBON	47K	5%	1/4W	
R082	1-246-499-00	CARBON	12K	5%	1/4W	
R083	1-246-487-00	CARBON	3.9K	5%	1/4W	
R084	1-246-496-00	CARBON	9.1K	5%	1/4W	
R085	1-246-493-00	CARBON	6.8K	5%	1/4W	
R086	1-246-497-00	CARBON	10K	5%	1/4W	
R087	1-246-521-00	CARBON	100K	5%	1/4W	
R088	1-246-511-00	CARBON	39K	5%	1/4W	
R089	1-246-505-00	CARBON	22K	5%	1/4W	
R090	1-246-489-00	CARBON	4.7K	5%	1/4W	
R091	1-246-514-00	CARBON	51K	5%	1/4W	
R092	1-246-505-00	CARBON	22K	5%	1/4W	
R093	1-246-511-00	CARBON	39K	5%	1/4W	
R094	1-246-509-00	CARBON	33K	5%	1/4W	
R095	1-246-493-00	CARBON	6.8K	5%	1/4W	
R096	1-246-493-00	CARBON	6.8K	5%	1/4W	
R097	1-202-472-00	COMPOSITION	5.1M	5%	1/4W	
R098	1-246-513-00	CARBON	47K	5%	1/4W	
R099	1-246-489-00	CARBON	4.7K	5%	1/4W	
R101	1-246-429-00	CARBON	15	5%	1/4W	
R102	1-246-496-00	CARBON	9.1K	5%	1/4W	
R103	1-246-519-00	CARBON	82K	5%	1/4W	
R104	1-246-509-00	CARBON	33K	5%	1/4W	
R105	1-246-498-00	CARBON	11K	5%	1/4W	
R106	1-246-523-00	CARBON	120K	5%	1/4W	
R107	1-246-497-00	CARBON	10K	5%	1/4W	
R108	1-246-519-00	CARBON	82K	5%	1/4W	
R109	1-246-501-00	CARBON	15K	5%	1/4W	
R110	1-246-532-00	CARBON	300K	5%	1/4W	
R111	1-246-465-00	CARBON	470	5%	1/4W	
R112	1-246-479-00	CARBON	1.8K	5%	1/4W	
R113	1-246-489-00	CARBON	4.7K	5%	1/4W	
R114	1-246-509-00	CARBON	33K	5%	1/4W	
R115	1-246-473-00	CARBON	1K	5%	1/4W	
R116	1-246-507-00	CARBON	27K	5%	1/4W	
R117	1-246-496-00	CARBON	9.1K	5%	1/4W	
R118	1-246-496-00	CARBON	9.1K	5%	1/4W	
R119	1-246-509-00	CARBON	33K	5%	1/4W	
R120	1-246-442-00	CARBON	51	5%	1/4W	
R121	1-246-509-00	CARBON	33K	5%	1/4W	
R122	1-246-503-00	CARBON	18K	5%	1/4W	
R123	1-246-497-00	CARBON	10K	5%	1/4W	
R125	1-246-518-00	CARBON	75K	5%	1/4W	
R126	1-246-483-00	CARBON	2.7K	5%	1/4W	
R128	1-246-485-00	CARBON	3.3K	5%	1/4W	
R129	1-246-478-00	CARBON	1.6K	5%	1/4W	
R130	1-246-517-00	CARBON	68K	5%	1/4W	
R131	1-246-501-00	CARBON	15K	5%	1/4W	
R132	1-246-500-00	CARBON	13K	5%	1/4W	
R134	1-246-477-00	CARBON	1.5K	5%	1/4W	
R135	1-246-535-00	CARBON	390K	5%	1/4W	
R136	1-246-497-00	CARBON	10K	5%	1/4W	
R137	1-246-497-00	CARBON	10K	5%	1/4W	
R139	1-202-472-00	COMPOSITION	5.1M	5%	1/4W	
R140	1-246-481-00	CARBON	2.2K	5%	1/4W	
R143	1-246-473-00	CARBON	1K	5%	1/4W	
R144	1-246-521-00	CARBON	100K	5%	1/4W	
R145	1-246-499-00	CARBON	12K	5%	1/4W	
R146	1-246-513-00	CARBON	47K	5%	1/4W	

When indicating parts by reference number, please include the board name.

Ref.No	Part No	Description				Remark
R147	1-246-527-00	CARBON	180K	5%	1/4W	
R148	1-246-490-00	CARBON	5.1K	5%	1/4W	
R149	1-246-509-00	CARBON	33K	5%	1/4W	
R150	1-246-543-00	CARBON	820K	5%	1/4W	
R501	1-246-485-00	CARBON	3.3K	5%	1/4W	
R502	1-246-521-00	CARBON	100K	5%	1/4W	
R503	1-246-497-00	CARBON	10K	5%	1/4W	
R504	1-246-521-00	CARBON	100K	5%	1/4W	
R505	1-246-497-00	CARBON	10K	5%	1/4W	
R506	1-246-521-00	CARBON	100K	5%	1/4W	
R507	1-246-497-00	CARBON	10K	5%	1/4W	
R508	1-246-521-00	CARBON	100K	5%	1/4W	
R509	1-246-497-00	CARBON	10K	5%	1/4W	
R510	1-246-521-00	CARBON	100K	5%	1/4W	
R511	1-246-495-00	CARBON	8.2K	5%	1/4W	
R512	1-246-492-00	CARBON	6.2K	5%	1/4W	
R513	1-246-521-00	CARBON	100K	5%	1/4W	
R514	1-246-505-00	CARBON	22K	5%	1/4W	
R515	1-246-521-00	CARBON	100K	5%	1/4W	
R516	1-246-497-00	CARBON	10K	5%	1/4W	
R517	1-246-521-00	CARBON	100K	5%	1/4W	
R518	1-246-497-00	CARBON	10K	5%	1/4W	
R519	1-246-481-00	CARBON	2.2K	5%	1/4W	
R520	1-246-481-00	CARBON	2.2K	5%	1/4W	
R521	1-246-497-00	CARBON	10K	5%	1/4W	
R522	1-246-515-00	CARBON	56K	5%	1/4W	
R523	1-246-515-00	CARBON	56K	5%	1/4W	
R524	1-246-497-00	CARBON	10K	5%	1/4W	
R525	1-246-481-00	CARBON	2.2K	5%	1/4W	
R526	1-246-481-00	CARBON	2.2K	5%	1/4W	
R527	1-246-481-00	CARBON	2.2K	5%	1/4W	
R528	1-246-481-00	CARBON	2.2K	5%	1/4W	
R529	1-246-481-00	CARBON	2.2K	5%	1/4W	
R530	1-246-481-00	CARBON	2.2K	5%	1/4W	
R531	1-246-497-00	CARBON	10K	5%	1/4W	
R532	1-246-497-00	CARBON	10K	5%	1/4W	
R533	1-246-505-00	CARBON	22K	5%	1/4W	
R534	1-246-505-00	CARBON	22K	5%	1/4W	
R536	1-246-505-00	CARBON	22K	5%	1/4W	
R537	1-246-497-00	CARBON	10K	5%	1/4W	
R538	1-246-505-00	CARBON	22K	5%	1/4W	
R539	1-246-505-00	CARBON	22K	5%	1/4W	
R540	1-246-491-00	CARBON	5.6K	5%	1/4W	
R541	1-246-497-00	CARBON	10K	5%	1/4W	
R542	1-246-505-00	CARBON	22K	5%	1/4W	
R543	1-246-505-00	CARBON	22K	5%	1/4W	
R544	1-246-505-00	CARBON	22K	5%	1/4W	
R545	1-246-497-00	CARBON	10K	5%	1/4W	
R555	1-246-505-00	CARBON	22K	5%	1/4W	
R556	1-246-505-00	CARBON	22K	5%	1/4W	
R557	1-246-505-00	CARBON	22K	5%	1/4W	
R558	1-246-497-00	CARBON	10K	5%	1/4W	
R559	1-246-505-00	CARBON	22K	5%	1/4W	

Ref.No	Part No	Description				Remark
R560	1-246-505-00	CARBON	22K	5%	1/4W	
R561	1-246-505-00	CARBON	22K	5%	1/4W	
R562	1-246-497-00	CARBON	10K	5%	1/4W	
R563	1-246-515-00	CARBON	56K	5%	1/4W	
R564	1-246-470-00	CARBON	750	5%	1/4W	
R565	1-246-505-00	CARBON	22K	5%	1/4W	
R566	1-246-505-00	CARBON	22K	5%	1/4W	
R567	1-246-505-00	CARBON	22K	5%	1/4W	
R568	1-246-497-00	CARBON	10K	5%	1/4W	
R569	1-246-473-00	CARBON	1K	5%	1/4W	
R570	1-246-519-00	CARBON	82K	5%	1/4W	
R571	1-246-505-00	CARBON	22K	5%	1/4W	
R572	1-246-519-00	CARBON	82K	5%	1/4W	
R573	1-246-505-00	CARBON	22K	5%	1/4W	
R574	1-246-519-00	CARBON	82K	5%	1/4W	
R575	1-246-505-00	CARBON	22K	5%	1/4W	
R576	1-246-519-00	CARBON	82K	5%	1/4W	
R577	1-246-505-00	CARBON	22K	5%	1/4W	
R578	1-246-519-00	CARBON	82K	5%	1/4W	
R579	1-246-505-00	CARBON	22K	5%	1/4W	
R580	1-246-519-00	CARBON	82K	5%	1/4W	
R581	1-246-505-00	CARBON	22K	5%	1/4W	
R582	1-246-497-00	CARBON	10K	5%	1/4W	
R583	1-246-497-00	CARBON	10K	5%	1/4W	
R584	1-246-473-00	CARBON	1K	5%	1/4W	
R585	1-246-471-00	CARBON	820	5%	1/4W	
R586	1-246-481-00	CARBON	2.2K	5%	1/4W	
R587	1-246-481-00	CARBON	2.2K	5%	1/4W	
R589	1-246-477-00	CARBON	1.5K	5%	1/4W	
R590	1-246-505-00	CARBON	22K	5%	1/4W	
R591	1-246-505-00	CARBON	22K	5%	1/4W	
R592	1-246-495-00	CARBON	8.2K	5%	1/4W	
R593	1-246-483-00	CARBON	2.7K	5%	1/4W	
R594	1-246-505-00	CARBON	22K	5%	1/4W	
R595	1-246-521-00	CARBON	100K	5%	1/4W	
R596	1-246-497-00	CARBON	10K	5%	1/4W	
R597	1-246-505-00	CARBON	22K	5%	1/4W	
R598	1-246-505-00	CARBON	22K	5%	1/4W	
R599	1-246-505-00	CARBON	22K	5%	1/4W	
R600	1-246-505-00	CARBON	22K	5%	1/4W	
R601	1-246-497-00	CARBON	10K	5%	1/4W	
R602	1-246-521-00	CARBON	100K	5%	1/4W	
R603	1-246-505-00	CARBON	22K	5%	1/4W	
R604	1-246-505-00	CARBON	22K	5%	1/4W	
R605	1-246-513-00	CARBON	47K	5%	1/4W	
R606	1-246-497-00	CARBON	10K	5%	1/4W	
R607	1-246-515-00	CARBON	56K	5%	1/4W	
R610	1-246-481-00	CARBON	2.2K	5%	1/4W	
R612	1-246-505-00	CARBON	22K	5%	1/4W	
R613	1-246-505-00	CARBON	22K	5%	1/4W	
R614	1-246-505-00	CARBON	22K	5%	1/4W	
R615	1-246-497-00	CARBON	10K	5%	1/4W	
R616	1-246-505-00	CARBON	22K	5%	1/4W	

When indicating parts by reference number, please include the board name.

SS-9 BOARD | DR-1 BOARD

Ref.No	Part No	Description				Remark
R617	1-246-505-00	CARBON	22K	5%	1/4W	
R618	1-246-473-00	CARBON	1K	5%	1/4W	
R620	1-246-513-00	CARBON	47K	5%	1/4W	
R621	1-246-537-00	CARBON	470K	5%	1/4W	
R622	1-246-537-00	CARBON	470K	5%	1/4W	
R623	1-246-521-00	CARBON	100K	5%	1/4W	
R624	1-246-497-00	CARBON	10K	5%	1/4W	
R625	1-246-521-00	CARBON	100K	5%	1/4W	
R626	1-246-537-00	CARBON	470K	5%	1/4W	
R627	1-246-515-00	CARBON	56K	5%	1/4W	

VARIABLE RESISTOR

RV001	1-226-852-00	RES, ADJ, CARBON 22K
RV002	1-226-854-00	RES, ADJ, CARBON 100K
RV003	1-226-853-00	RES, ADJ, CARBON 47K
RV004	1-226-497-00	RES, VAR, CARBON 100K
RV005	1-226-852-00	RES, ADJ, CARBON 22K
RV006	1-226-854-00	RES, ADJ, CARBON 100K
RV007	1-226-853-00	RES, ADJ, CARBON 47K
RV008	1-226-853-00	RES, ADJ, CARBON 47K
RV009	1-226-850-00	RES, ADJ, CARBON 4.7K
RV010	1-226-853-00	RES, ADJ, CARBON 47K
RV011	1-226-849-31	RES, ADJ, CARBON 3.3K

SWITCH

S001	1-553-848-00	SWITCH, SLIDE

****

♦:A-6728-305-A DR-1 BOARD, COMPLETE
****

♦:3-671-128-00 BRACKET (L), SWITCH

CAPACITOR

C001	1-161-051-00	CERAMIC	0.01MF	30%	25V
C002	1-129-794-00	FILM	0.0033MF	5%	100V
C003	1-161-051-00	CERAMIC	0.01MF	30%	25V
C004	1-161-051-00	CERAMIC	0.01MF	30%	25V
C005	1-161-051-00	CERAMIC	0.01MF	30%	25V
C006	1-123-380-00	ELECT	1MF	20%	50V
C007	1-123-380-00	ELECT	1MF	20%	50V
C008	1-161-494-00	CERAMIC	0.022MF	30%	25V
C009	1-123-379-00	ELECT	0.47MF	20%	50V
C010	1-161-051-00	CERAMIC	0.01MF	30%	25V
C011	1-129-794-00	FILM	0.0033MF	5%	100V
C012	1-161-051-00	CERAMIC	0.01MF	30%	25V
C013	1-161-051-00	CERAMIC	0.01MF	30%	25V
C014	1-123-380-00	ELECT	1MF	20%	50V
C015	1-123-380-00	ELECT	1MF	20%	50V
C016	1-161-494-00	CERAMIC	0.022MF	30%	25V
C017	1-123-379-00	ELECT	0.47MF	20%	50V
C018	1-123-332-00	ELECT	47MF	20%	16V
C019	1-161-051-00	CERAMIC	0.01MF	30%	25V
C020	1-161-051-00	CERAMIC	0.01MF	30%	25V
C021	1-123-328-00	ELECT	4.7MF	20%	25V
C022	1-161-494-00	CERAMIC	0.022MF	30%	25V

CONNECTOR

CN001♦	1-508-743-00	PIN, CONNECTOR 5P
CN002♦	1-508-742-00	PIN, CONNECTOR 3P
CN003♦	1-508-742-00	PIN, CONNECTOR 3P
CN004♦	1-508-742-00	PIN, CONNECTOR 3P
CN005♦	1-508-742-00	PIN, CONNECTOR 3P
CN006♦	1-508-796-00	PIN, CONNECTOR 2P

DIODE

D001	=>8-719-911-19	DIODE 1SS119
D002	=>8-719-911-19	DIODE 1SS119
D003	8-719-200-02	DIODE 10E-2
D004	8-719-200-02	DIODE 10E-2
D005	8-719-200-02	DIODE 10E-2
D006	8-719-200-02	DIODE 10E-2
D007	8-719-200-02	DIODE 10E-2
D008	8-719-200-02	DIODE 10E-2
D009	8-719-200-02	DIODE 10E-2
D010	8-719-200-02	DIODE 10E-2
D011	8-719-200-02	DIODE 10E-2
D012	8-719-200-02	DIODE 10E-2
D013	8-719-200-02	DIODE 10E-2
D014	8-719-200-02	DIODE 10E-2
D015	8-719-200-02	DIODE 10E-2

TRANSISTOR

Q001	8-729-178-54	TRANSISTOR 2SC2785-F
Q002	8-729-374-02	TRANSISTOR 2SB740-B
Q003	=>8-729-177-43	TRANSISTOR 2SD774
Q004	8-729-374-02	TRANSISTOR 2SB740-B
Q005	=>8-729-177-43	TRANSISTOR 2SD774
Q006	8-729-178-54	TRANSISTOR 2SC2785-F
Q007	8-729-178-54	TRANSISTOR 2SC2785-F
Q008	8-729-178-54	TRANSISTOR 2SC2785-F
Q010	=>8-729-635-52	TRANSISTOR 2SD355
Q011	8-729-178-54	TRANSISTOR 2SC2785-F
Q012	8-729-178-54	TRANSISTOR 2SC2785-F
Q013	8-729-178-54	TRANSISTOR 2SC2785-F
Q014	8-729-178-54	TRANSISTOR 2SC2785-F
Q015	8-729-178-54	TRANSISTOR 2SC2785-F
Q016	8-729-178-54	TRANSISTOR 2SC2785-F
Q017	8-729-178-54	TRANSISTOR 2SC2785-F
Q018	8-729-178-54	TRANSISTOR 2SC2785-F
Q019	⚠8-729-117-54	TRANSISTOR 2SA1175-F
Q020	⚠8-729-316-16	TRANSISTOR 2SC1061-C
Q021	⚠8-729-116-42	TRANSISTOR 2SD1164-K
Q022	⚠8-729-116-42	TRANSISTOR 2SD1164-K
Q023	=>8-729-635-52	TRANSISTOR 2SD355
Q024	8-729-178-54	TRANSISTOR 2SC2785-F

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- =>: Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

When indicating parts by reference number, please include the board name.

DR-1 BOARD | DR-2 BOARD | DR-3 BOARD | DR-4 BOARD

DR-5 BOARD | DR-6 BOARD | DR-7 BOARD

Ref.No	Part No	Description				Remark
Q025	8-729-116-42	TRANSISTOR 2SD1164-K				
Q026	=>8-729-635-52	TRANSISTOR 2SD355				
Q027	8-729-116-42	TRANSISTOR 2SD1164-K				
Q028	=>8-729-635-52	TRANSISTOR 2SD355				
Q029	8-729-331-53	TRANSISTOR 2SC2315				
Q030	8-729-178-54	TRANSISTOR 2SC2785-F				
Q031	8-729-116-42	TRANSISTOR 2SD1164-K				
Q034	8-729-606-32	TRANSISTOR 2SC2603-F				
		RESISTOR				
R001	1-246-473-00	CARBON	1K	5%	1/4W	
R002	1-246-515-00	CARBON	56K	5%	1/4W	
R003	1-246-491-00	CARBON	5.6K	5%	1/4W	
R004	1-246-473-00	CARBON	1K	5%	1/4W	
R005	1-246-491-00	CARBON	5.6K	5%	1/4W	
R006	1-246-473-00	CARBON	1K	5%	1/4W	
R007	1-246-473-00	CARBON	1K	5%	1/4W	
R008	1-246-449-00	CARBON	100	5%	1/4W	
R009	1-246-513-00	CARBON	47K	5%	1/4W	
R010	1-246-513-00	CARBON	47K	5%	1/4W	
R011	1-246-513-00	CARBON	47K	5%	1/4W	
R012	1-246-528-00	CARBON	200K	5%	1/4W	
R013	1-246-483-00	CARBON	2.7K	5%	1/4W	
R014	1-246-511-00	CARBON	39K	5%	1/4W	
R015	1-246-457-00	CARBON	220	5%	1/4W	
R016	1-246-517-00	CARBON	68K	5%	1/4W	
R017	1-246-521-00	CARBON	100K	5%	1/4W	
R018	1-246-483-00	CARBON	2.7K	5%	1/4W	
R019	1-246-491-00	CARBON	5.6K	5%	1/4W	
R020	1-246-473-00	CARBON	1K	5%	1/4W	
R021	1-246-494-00	CARBON	7.5K	5%	1/4W	
R022	1-246-509-00	CARBON	33K	5%	1/4W	
R023	1-246-505-00	CARBON	22K	5%	1/4W	
R024	1-246-443-00	CARBON	56	5%	1/4W	
R025	1-246-521-00	CARBON	100K	5%	1/4W	
R026	1-246-528-00	CARBON	200K	5%	1/4W	
R027	1-246-483-00	CARBON	2.7K	5%	1/4W	
R028	1-246-457-00	CARBON	220	5%	1/4W	
R029	1-246-511-00	CARBON	39K	5%	1/4W	
R030	1-246-517-00	CARBON	68K	5%	1/4W	
R031	1-246-521-00	CARBON	100K	5%	1/4W	
R032	1-246-483-00	CARBON	2.7K	5%	1/4W	
R033	1-246-491-00	CARBON	5.6K	5%	1/4W	
R034	1-246-473-00	CARBON	1K	5%	1/4W	
R035	1-246-494-00	CARBON	7.5K	5%	1/4W	
R036	1-246-509-00	CARBON	33K	5%	1/4W	
R037	1-246-505-00	CARBON	22K	5%	1/4W	
R038	1-246-443-00	CARBON	56	5%	1/4W	
R039	1-246-521-00	CARBON	100K	5%	1/4W	
R040	1-246-515-00	CARBON	56K	5%	1/4W	
R041	1-246-465-00	CARBON	470	5%	1/4W	
R042	1-246-513-00	CARBON	47K	5%	1/4W	
R043	1-246-465-00	CARBON	470	5%	1/4W	
R044	1-246-497-00	CARBON	10K	5%	1/4W	
R045 ⚠	1-212-360-00	METAL	1	5%	1W	F
R046	1-246-449-00	CARBON	100	5%	1/4W	
R047	1-246-497-00	CARBON	10K	5%	1/4W	
R048	1-246-497-00	CARBON	10K	5%	1/4W	
R049	1-246-516-00	CARBON	62K	5%	1/4W	
R050	1-246-497-00	CARBON	10K	5%	1/4W	
R051	1-246-481-00	CARBON	2.2K	5%	1/4W	
R052	1-246-497-00	CARBON	10K	5%	1/4W	
R053	1-246-497-00	CARBON	10K	5%	1/4W	
R054	1-246-497-00	CARBON	10K	5%	1/4W	
R055	1-246-473-00	CARBON	1K	5%	1/4W	
R060 ⚠	1-246-981-00	CARBON	4.7	5%	1/8W	F
R061 ⚠	1-212-360-00	METAL	1	5%	1W	F
R062 ⚠	1-212-360-00	METAL	1	5%	1W	F
R065 ⚠	1-211-929-00	CARBON	82	5%	1/8W	F
	♦:1-605-695-00	DR-2 BOARD				
		**********				
		SWITCH				
S001	1-552-664-00	SWITCH, MICRO				
	♦:1-605-696-00	DR-3 BOARD				
		**********				
		SWITCH				
S002	1-552-664-00	SWITCH, MICRO				
	♦:1-605-697-00	DR-4 BOARD				
		**********				
		SWITCH				
S003	1-553-847-00	SWITCH, LEVER				
	♦:1-605-698-00	DR-5 BOARD				
		**********				
	♦:1-605-699-00	DR-6 BOARD				
		**********				
	♦:1-605-700-00	DR-7 BOARD				
		**********				

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When indicating parts by reference number, please include the board name.

DR-8 BOARD | DR-9 BOARD | DR-10 BOARD | FS-11 BOARD | FS-12 BOARD | IF-16 BOARD

Ref.No	Part No	Description	Remark
♦	1-605-701-00	DR-8 BOARD **********	
		COIL	
L001	1-543-145-00	HEAD, SENSING	
**********			
♦	1-605-702-00	DR-9 BOARD **********	
		COIL	
L002	1-543-145-00	HEAD, SENSING	
**********			
♦	1-605-703-00	DR-10 BOARD **********	
		TRANSISTOR	
Q009	8-729-316-16	TRANSISTOR 2SC1061-C	
**********			
	1-605-687-00	FS-11 BOARD **********	
♦	3-661-516-00	HOLDER, LED	
♦	3-661-516-00	HOLDER, LED	
		DIODE	
D001	8-719-812-33	DIODE TLG123	
D002	8-719-812-32	DIODE TLY123	
D003	8-719-812-31	DIODE TLR123	
		SWITCH	
S001	1-553-766-00	SWITCH, KEY BOARD	
S002	1-553-766-00	SWITCH, KEY BOARD	
S003	1-553-766-00	SWITCH, KEY BOARD	
S004	1-553-766-00	SWITCH, KEY BOARD	
S005	1-553-766-00	SWITCH, KEY BOARD	
S006	1-553-766-00	SWITCH, KEY BOARD	
**********			
	1-605-688-00	FS-12 BOARD **********	
		DIODE	
D001	8-719-812-31	DIODE TLR123	
		SWITCH	
S001	1-553-766-00	SWITCH, KEY BOARD	

Ref.No	Part No	Description	Remark
♦	A-6721-090-A	IF-16 BOARD, COMPLETE **********	
♦	3-671-198-00	HOLDER, LAMP	
♦	3-671-199-00	COVER, HOLDER, LAMP	
♦	4-350-801-00	CASE (UPPER LID), SHIELD, VIF	
♦	4-350-807-00	CASE (MAIN), SHIELD, VIF	
♦	4-350-808-00	CASE (BOTTOM LID), SHIELD, VIF	
		CAPACITOR	
C001	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
C002	1-108-242-00	MYLAR 0.022MF 10% 50V	
C003	1-123-608-00	ELECT 0.22MF 20% 50V	
C004	1-123-608-00	ELECT 0.22MF 20% 50V	
C005	1-102-525-00	CERAMIC 68PF 5% 50V	
C006	1-123-323-00	ELECT 470MF 20% 16V	
C007	1-101-004-00	CERAMIC 0.01MF 50V	
C008	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
C009	1-123-356-00	ELECT 10MF 20% 16V	
C010	1-108-839-00	MYLAR 0.015MF 10% 50V	
C011	1-123-380-00	ELECT 1MF 20% 50V	
C012	1-102-510-00	CERAMIC 12PF 5% 50V	
C013	1-102-494-00	CERAMIC 68PF 5% 50V	
C014	1-102-074-00	CERAMIC 0.001MF 10% 50V	
C015	1-123-380-00	ELECT 1MF 20% 50V	
C016	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
C017	1-123-356-00	ELECT 10MF 20% 16V	
C018	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
C019	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
C020	1-102-121-00	CERAMIC 0.0022MF 10% 50V	
C021	1-123-379-00	ELECT 0.47MF 20% 50V	
C022	1-102-514-00	CERAMIC 22PF 5% 50V	
C023	1-102-816-00	CERAMIC 120PF 5% 50V	
C024	1-123-379-00	ELECT 0.47MF 20% 50V	
C025	1-123-333-00	ELECT 100MF 20% 16V	
C026	1-108-377-00	MYLAR 0.01MF 10% 100V	
C027	1-121-246-00	ELECT 4.7MF 160V	
C028	1-123-382-00	ELECT 3.3MF 20% 50V	
C029	1-123-328-00	ELECT 4.7MF 20% 25V	
C030	1-123-330-00	ELECT 22MF 20% 16V	
C031	1-123-356-00	ELECT 10MF 20% 16V	
		FILTER	
CF001	1-409-332-00	CERAMIC TRAP (4.5MHZ)	
CF002	1-527-260-00	FILTER, CERAMIC (4.5MHZ)	
CF003	1-409-332-00	CERAMIC TRAP (4.5MHZ)	
		CONNECTOR	
CN001	♦ 1-508-743-00	PIN, CONNECTOR 5P	
CN002	♦ 1-508-797-00	PIN, CONNECTOR 4P	
CN003	♦ 1-508-846-00	PIN, CONNECTOR 8P	

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Ref.No	Part No	Description	Remark
		JACK	
CNJ001♦	1-526-575-00	SOCKET, PLUG	
		DIODE	
D001	=>8-719-911-19	DIODE 1SS119	
D002	=>8-719-911-19	DIODE 1SS119	
D003	=>8-719-911-19	DIODE 1SS119	
D004	=>8-719-911-19	DIODE 1SS119	
D005	=>8-719-911-19	DIODE 1SS119	
D006	=>8-719-911-19	DIODE 1SS119	
D007	=>8-719-911-19	DIODE 1SS119	
D008	=>8-719-911-19	DIODE 1SS119	
D010	8-719-200-02	DIODE 10E-2	
		IC	
IC001	=>8-758-851-00	IC CX-885A	
IC002	8-759-157-40	IC UPC574J	
		COIL	
L001	1-408-430-11	MICRO INDUCTOR 1UH	
L002	1-408-403-00	MICRO INDUCTOR 3.3UH	
L003	1-408-419-00	MICRO INDUCTOR 68UH	
L004	1-408-443-11	MICRO INDUCTOR 12UH	
L005	1-408-408-00	MICRO INDUCTOR 8.2UH	
L006	1-407-716-00	MICRO INDUCTOR 820UH	
L007	1-408-442-11	MICRO INDUCTOR 10UH	
L008	1-408-445-11	MICRO INDUCTOR 18UH	
		NEON LAMP	
NL001	1-519-154-61	LAMP, NEON	
NL002	1-519-154-61	LAMP, NEON	
NL003	1-519-154-61	LAMP, NEON	
NL004	1-519-154-61	LAMP, NEON	
NL005	1-519-154-61	LAMP, NEON	
NL006	1-519-154-61	LAMP, NEON	
NL007	1-519-154-61	LAMP, NEON	
NL008	1-519-154-61	LAMP, NEON	
NL009	1-519-154-61	LAMP, NEON	
NL010	1-519-154-61	LAMP, NEON	
NL011	1-519-154-61	LAMP, NEON	
NL012	1-519-154-61	LAMP, NEON	
NL013	1-519-154-61	LAMP, NEON	
NL014	1-519-154-61	LAMP, NEON	
		VOLUME BLOCK	
PS001	1-228-376-00	VOLUME BLOCK, PRESET(14STATION)	
		TRANSISTOR	
Q001	8-729-178-54	TRANSISTOR 2SC2785-R	
Q002	8-729-178-54	TRANSISTOR 2SC2785-R	
Q003	8-729-178-54	TRANSISTOR 2SC2785-R	
Q004	8-729-178-54	TRANSISTOR 2SC2785-R	
Q005	8-729-178-54	TRANSISTOR 2SC2785-R	
Q006	8-729-178-54	TRANSISTOR 2SC2785-R	
Q007	=>8-723-302-00	TRANSISTOR 2SK43-2	
Q008	=>8-729-309-06	TRANSISTOR 2SC1890A	
Q009	=>8-729-117-54	TRANSISTOR 2SA1175	
Q010	8-729-178-54	TRANSISTOR 2SC2785-R	
Q011	=>8-729-309-06	TRANSISTOR 2SC1890	
Q013	=>8-729-117-54	TRANSISTOR 2SA1175	
Q014	=>8-729-117-54	TRANSISTOR 2SA1175	
		RESISTOR	
R001	1-246-487-00	CARBON 3.9K 5% 1/4W	
R002	1-246-521-00	CARBON 100K 5% 1/4W	
R003	1-246-511-00	CARBON 39K 5% 1/4W	
R004	1-246-471-00	CARBON 820 5% 1/4W	
R005	1-246-485-00	CARBON 3.3K 5% 1/4W	
R006	1-246-473-00	CARBON 1K 5% 1/4W	
R007	1-246-473-00	CARBON 1K 5% 1/4W	
R008	1-246-481-00	CARBON 2.2K 5% 1/4W	
R009	1-246-463-00	CARBON 390 5% 1/4W	
R010	1-246-463-00	CARBON 390 5% 1/4W	
R011	1-246-485-00	CARBON 3.3K 5% 1/4W	
R012	1-246-485-00	CARBON 3.3K 5% 1/4W	
R013	1-246-469-00	CARBON 680 5% 1/4W	
R014	1-246-489-00	CARBON 4.7K 5% 1/4W	
R015	1-246-465-00	CARBON 470 5% 1/4W	
R016	1-246-459-00	CARBON 270 5% 1/4W	
R017	1-246-501-00	CARBON 15K 5% 1/4W	
R018	1-246-485-00	CARBON 3.3K 5% 1/4W	
R019	1-246-477-00	CARBON 1.5K 5% 1/4W	
R020	1-246-515-00	CARBON 56K 5% 1/4W	
R021	1-246-487-00	CARBON 3.9K 5% 1/4W	
R022	1-246-473-00	CARBON 1K 5% 1/4W	
R023	1-246-505-00	CARBON 22K 5% 1/4W	
R024	1-246-515-00	CARBON 56K 5% 1/4W	
R025	1-246-497-00	CARBON 10K 5% 1/4W	
R026	1-246-497-00	CARBON 10K 5% 1/4W	
R027	1-246-497-00	CARBON 10K 5% 1/4W	
R028	1-246-521-00	CARBON 100K 5% 1/4W	
R029	1-202-735-00	COMPOSITION 22M 10% 1/2W	
R030	1-246-497-00	CARBON 10K 5% 1/4W	
R031	1-246-501-00	CARBON 15K 5% 1/4W	
R032 ⚠	1-206-688-00	METAL 10K 5% 2W F	
R033	1-246-511-00	CARBON 39K 5% 1/4W	
R034	1-246-545-00	CARBON 1M 5% 1/4W	
R035	1-246-542-00	CARBON 750K 5% 1/4W	
R036	1-246-497-00	CARBON 10K 5% 1/4W	
R037	1-246-497-00	CARBON 10K 5% 1/4W	
R038	1-246-524-00	CARBON 130K 5% 1/4W	
R039	1-246-497-00	CARBON 10K 5% 1/4W	
R040	1-246-505-00	CARBON 22K 5% 1/4W	
R041	1-246-521-00	CARBON 100K 5% 1/4W	
R042	1-246-507-00	CARBON 27K 5% 1/4W	

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When indicating parts by reference number, please include the board name.

IF-16 BOARD | TP-2 BOARD

Ref.No	Part No	Description				Remark
R043	1-246-505-00	CARBON	22K	5%	1/4W	
R044	1-246-513-00	CARBON	47K	5%	1/4W	
R045	⚠1-211-427-00	CARBON	100	5%	1/8W	F
R046	1-246-533-00	CARBON	330K	5%	1/4W	
R047	1-246-527-00	CARBON	180K	5%	1/4W	
R048	1-246-441-00	CARBON	47	5%	1/4W	
R049	1-246-481-00	CARBON	2.2K	5%	1/4W	
R050	1-246-509-00	CARBON	33K	5%	1/4W	
R051	1-246-505-00	CARBON	22K	5%	1/4W	
R052	1-246-497-00	CARBON	10K	5%	1/4W	
R053	1-246-521-00	CARBON	100K	5%	1/4W	
R054	1-246-455-00	CARBON	180	5%	1/4W	
R055	1-246-521-00	CARBON	100K	5%	1/4W	
R056	1-246-479-00	CARBON	1.8K	5%	1/4W	
R057	1-246-489-00	CARBON	4.7K	5%	1/4W	

VARIABLE RESISTOR

RV001	1-226-850-00	RES, ADJ, CARBON 4.7K
RV002	1-226-850-00	RES, ADJ, CARBON 4.7K

SWITCH

S001	1-553-845-00	SWITCH, PUSH (14 KEY)
S002	1-516-226-00	SLIDE SWITCH

FILTER

SF001	1-404-227-41	SAWF

TRANSFORMER

T001	1-404-321-00	VIFT
T002	1-404-181-00	COIL, VIF
T003	1-404-181-00	COIL, VIF
T004	1-403-367-00	COIL, SIF
T005	1-404-318-00	SIFT
T006	1-404-153-00	VIFT

THERMISTOR

TH001	1-800-626-00	THERMISTOR

POST PIN

TP001	1-536-354-00	POST PIN
TP002	1-536-354-00	POST PIN
TP003	1-536-354-00	POST PIN

****

♦:	A-6728-317-A	TP-2 BOARD, COMPLETE (Type1)
♦:	A-6728-400-A	TP-2 BOARD, COMPLETE (Type2, Type3)
♦:	1-533-087-00	HOLDER, FUSE
♦:	3-671-204-00	HOLDER, TUBE, INDICATION
♦:	3-671-208-00	HOLDER, SWITCH, POWER

Ref.No	Part No	Description			Remark
		CAPACITOR			
C001	⚠1-123-403-00	ELECT	4700MF	25V	
C002	⚠1-123-404-00	ELECT	10000MF	25V	
C006	1-123-332-00	ELECT	47MF	20% 16V	
C007	1-123-253-00	ELECT	22MF	160V	
C009	1-123-332-00	ELECT	47MF	20% 16V	
C010	1-123-356-00	ELECT	10MF	20% 25V	
C011	1-123-333-00	ELECT	100MF	20% 25V	
C020	1-123-328-00	ELECT	4.7MF	20% 25V	
C021	1-161-051-00	CERAMIC	0.01MF	30% 25V	
C201	1-123-336-00	ELECT	470MF	20% 25V	
C202	1-123-297-00	ELECT	330MF	20% 6.3V	
C203	1-123-380-00	ELECT	1MF	20% 50V	
C204	1-161-051-00	CERAMIC	0.01MF	30% 25V	
C206	1-123-328-00	ELECT	4.7MF	20% 25V	
		CONNECTOR			
CN002	♦:1-560-136-00	PLUG, CONNECTOR 4P			
CN003	♦:1-508-797-00	PIN, CONNECTOR 4P			
		DIODE			
⚠D001	=>8-719-000-05	DIODE M4B31-13			
D002	⚠8-719-941-13	DIODE M4B-41-13			
D003	=>8-719-900-95	DIODE V09G			
D007	=>8-719-911-19	DIODE 1SS119			
D008	8-719-100-61	DIODE RD11EB2			
D009	=>8-719-911-19	DIODE 1SS119			
D201	8-719-200-02	DIODE 10E-1			
D202	8-719-100-30	DIODE RD5.1EB2			
D203	=>8-719-911-19	DIODE 1SS119			
D204	=>8-719-911-19	DIODE 1SS119			
D205	=>8-719-911-19	DIODE 1SS119			
D206	=>8-719-911-19	DIODE 1SS119			
D207	=>8-719-911-19	DIODE 1SS119			
D208	=>8-719-911-19	DIODE 1SS119			
D209	=>8-719-911-19	DIODE 1SS119			
		FUSE			
F001	⚠1-532-578-00	FUSE, GLASS TUBE			
F002	⚠1-532-579-00	FUSE, GLASS TUBE			
		IC			
⚠IC001	=>8-749-953-14	IC STK-5314			
IC301	8-759-934-19	IC LR3419			
		TRANSISTOR			
Q002	=>8-729-178-54	TRANSISTOR 2SC2785			
Q009	=>8-729-178-54	TRANSISTOR 2SC2785			
Q010	=>8-729-178-54	TRANSISTOR 2SC2785			
Q011	=>8-729-178-54	TRANSISTOR 2SC2785			
Q201	=>8-729-178-54	TRANSISTOR 2SC2785			
Q202	=>8-729-178-54	TRANSISTOR 2SC2785			

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When indicating parts by reference number, please include the board name.

TP-2 BOARD **TP-3 BOARD** **TP-4 BOARD** **TP-6 BOARD**

TT-5 BOARD **TT-2 BOARD** **TT-3 BOARD**

Ref.No	Part No	Description				Remark
Q203	=>8-729-117-54	TRANSISTOR 2SA1175				
Q301	=>8-729-178-54	TRANSISTOR 2SC2785				
Q302	=>8-729-117-54	TRANSISTOR 2SA1175				
		RESISTOR				
R004	1-246-521-00	CARBON	100K	5%	1/4W	
R005	1-246-513-00	CARBON	47K	5%	1/4W	
R006	1-246-497-00	CARBON	10K	5%	1/4W	
R015 ⚠	1-212-857-00	FUSIBLE	10	5%	1/4W	F
R016 ⚠	1-212-857-00	FUSIBLE	10	5%	1/4W	F
R020	1-246-473-00	CARBON	1K	5%	1/4W	
R023	1-246-509-00	CARBON	33K	5%	1/4W	
R025	1-246-485-00	CARBON	3.3K	5%	1/4W	
R026	1-246-507-00	CARBON	27K	5%	1/4W	
R027	1-246-521-00	CARBON	100K	5%	1/4W	
R028	1-246-497-00	CARBON	10K	5%	1/4W	
R201	1-246-481-00	CARBON	2.2K	5%	1/4W	
R203	1-246-521-00	CARBON	100K	5%	1/4W	
R205	1-246-521-00	CARBON	100K	5%	1/4W	
R206	1-246-469-00	CARBON	680	5%	1/4W	
R207	1-246-521-00	CARBON	100K	5%	1/4W	
R208	1-246-521-00	CARBON	100K	5%	1/4W	
R209	1-246-497-00	CARBON	10K	5%	1/4W	
R210	1-246-505-00	CARBON	22K	5%	1/4W	
R212	1-246-513-00	CARBON	47K	5%	1/4W	
R213	1-246-513-00	CARBON	47K	5%	1/4W	
R214	1-246-513-00	CARBON	47K	5%	1/4W	
R215	1-246-513-00	CARBON	47K	5%	1/4W	
R216	1-246-513-00	CARBON	47K	5%	1/4W	
R217	1-246-505-00	CARBON	22K	5%	1/4W	
R218	1-246-481-00	CARBON	2.2K	5%	1/4W	
**********						
♦:	1-605-683-00	TP-3 BOARD **********				
		CAPACITOR				
C301	1-123-330-00	ELECT	22MF	20%	16V	
C302	1-123-332-00	ELECT	47MF	20%	16V	
C303	1-161-025-00	CERAMIC	0.1MF	10%	25V	
C304	1-161-051-00	CERAMIC	0.01MF	30%	25V	
		INDICATOR TUBE				
FL301	1-519-232-00	INDICATOR TUBE, FLUORESCENT				
		RESISTOR				
R301	1-246-505-00	CARBON	22K	5%	1/4W	
R302	1-246-521-00	CARBON	100K	5%	1/4W	
R303	1-246-518-00	CARBON	75K	5%	1/4W	
R304	1-246-505-00	CARBON	22K	5%	1/4W	
R305	1-246-505-00	CARBON	22K	5%	1/4W	

Ref.No	Part No	Description				Remark
♦:	1-605-684-00	TP-4 BOARD **********				
		DIODE				
D501	8-719-812-33	DIODE TLG123				
D502	8-719-812-31	DIODE TLR123				
		SWITCH				
S501	1-553-846-00	SWITCH, PUSH (2 KEY)				
**********						
♦:	1-605-685-00	TP-6 BOARD **********				
		SWITCH				
S401	1-553-766-00	SWITCH, KEY BOARD				
S402	1-553-766-00	SWITCH, KEY BOARD				
S403	1-553-766-00	SWITCH, KEY BOARD				
S404	1-553-766-00	SWITCH, KEY BOARD				
S405	1-553-766-00	SWITCH, KEY BOARD				
S406	1-553-766-00	SWITCH, KEY BOARD				
**********						
♦:	1-605-686-00	TP-7 BOARD (Type2, Type3) **********				
S601	1-516-226-00	SLIDE SWITCH (Type2, Type3)				
**********						
	1-605-704-00	TT-5 BOARD **********				
		CAPACITOR				
C101	1-161-021-00	CERAMIC	0.047MF	10%	25V	
C102	1-123-901-00	ELECT	2.2MF	20%	50V	
		CONNECTOR				
CN101 ♦:	1-508-848-00	PIN, CONNECTOR 6P				
		COIL				
L101	1-408-538-00	COIL, NOISE FILTER				
**********						
	1-605-705-00	TT-2 BOARD **********				
	1-553-847-00	SWITCH, LEVER				
**********						
	1-605-706-00	TT-3 BOARD **********				
	1-553-847-00	SWITCH, LEVER				

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When indicating parts by reference number, please include the board name.

TT-4 BOARD **SL-1 BOARD** **FG-2 BOARD** **RM-8 BOARD**

FL-2 BOARD **TU-23 BOARD** **LF-21 BOARD** **CP-6 BOARD**

Ref.No	Part No	Description			Remark
	1-605-707-00	TT-4 BOARD			
		**********			
	1-553-847-00	SWITCH, LEVER			
**********					
	1-605-691-00	SL-1 BOARD			
		**********			
	1-552-180-00	SWITCH, REED			
♦	3-659-359-00	PLATE, BOOST, REED SWITCH			
**********					
♦	1-605-708-00	FG-2 BOARD			
		**********			
	3-658-161-00	HOLDER, DME			
♦	3-659-313-00	PLATE, ADJUSTMENT, DME			
		DM			
DM701=>8-745-101-01		DM-101			
**********					
♦	1-605-714-00	RM-8 BOARD			
		**********			
		RESISTOR			
RO01	1-246-473-00	CARBON	1K	5% 1/4W	
RO02	1-246-483-00	CARBON	2.7K	5% 1/4W	
		SWITCH			
SO01	1-553-766-00	SWITCH, KEY BOARD			
SO02	1-553-766-00	SWITCH, KEY BOARD			
SO03	1-553-766-00	SWITCH, KEY BOARD			
**********					
♦	1-605-692-00	FL-2 BOARD			
		**********			
		CAPACITOR			
CO01	1-161-076-00	CERAMIC	0.1MF	20% 50V	
CO02	1-161-076-00	CERAMIC	0.1MF	20% 50V	
		COIL			
LO01	1-421-225-00	COIL, LINE FILTER			
**********					
♦	1-605-690-00	TU-23 BOARD			
		**********			
		CAPACITOR			
C501	1-123-356-00	ELECT	10MF	20% 16V	

Ref.No	Part No	Description			Remark
C502	1-123-330-00	ELECT	22MF	20% 16V	
C503	1-108-389-00	MYLAR	0.1MF	10% 100V	
C504	1-108-377-00	MYLAR	0.01MF	10% 100V	
C505	1-123-356-00	ELECT	10MF	20% 16V	
C506	1-123-318-00	ELECT	33MF	20% 16V	
**********					
♦	1-605-709-00	LF-21 BOARD (Type1, Type2)			
		**********			
		CAPAITOR			
C101	⚠1-130-680-00	FILM	0.1MF	20% 125V	
C102	⚠1-161-747-00	CERAMIC	0.0022MF	20% 125V	
C103	⚠1-161-747-00	CERAMIC	0.0022MF	20% 125V	
		FUSE			
F101	⚠1-532-595-00	FUSE, GLASS TUBE			
		COIL			
L101	⚠1-421-357-00	TRANSFORMER, LINE FILTER			
		RESISTOR			
R101	⚠1-202-723-00	COMPOSITION	2.2M	10% 1/2W	
**********					
♦	1-605-709-21	LF-21 BOARD (Type3)			
		**********			
		CAPAITOR			
C101	⚠1-130-680-21	FILM	0.1MF	20% 300V	
C102	⚠1-161-742-00	CERAMIC	0.0022MF	20% 400V	
C103	⚠1-161-742-00	CERAMIC	0.0022MF	20% 400V	
		FUSE			
F101	⚠1-532-597-00	FUSE, GLASS TUBE			
		COIL			
L101	⚠1-421-357-00	TRANSFORMER, LINE FILTER			
		RESISTOR			
R101	⚠1-202-723-00	COMPOSITION	2.2M	10% 1/2W	
**********					
♦	1-606-102-00	CP-6 BOARD			
		**********			
		CAPACITOR			
C101	1-123-380-00	ELECT	1MF	20% 50V	

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Ref.No	Part No	Description				Remark
		CONNECTOR				
CN101	1-508-847-00	PIN, CONNECTOR 4P				
CN102	1-508-734-00	PIN, CONNECTOR 3P				
		TRANSISTOR				
Q101	8-729-178-54	TRANSISTOR 2SC2785-H				
Q102	8-729-178-54	TRANSISTOR 2SC2785-H				
Q103	8-729-178-54	TRANSISTOR 2SC2785-H				
Q104	8-729-178-54	TRANSISTOR 2SC2785-H				
		RESISTOR				
R101	1-246-515-00	CARBON	56K	5%	1/4W	
R102	1-246-505-00	CARBON	22K	5%	1/4W	
R103	1-246-505-00	CARBON	22K	5%	1/4W	
R104	1-246-452-00	CARBON	130	5%	1/4W	
R105	1-246-484-00	CARBON	3K	5%	1/4W	
R106	1-246-472-00	CARBON	910	5%	1/4W	
R107	1-246-491-00	CARBON	5.6K	5%	1/4W	
R108	1-246-515-00	CARBON	56K	5%	1/4W	
R109	1-246-449-00	CARBON	100	5%	1/4W	
		MISCELLANEOUS				
⚠	1-447-080-21	TRANSFORMER, POWER (Type1)				
⚠	1-447-276-11	TRANSFORMER, POWER (Type2)				
⚠	1-447-218-00	TRANSFORMER, POWER (Type3)				
⚠	1-454-292-11	SOLENOID, PLUNGER (BS)				
⚠	1-454-293-11	SOLENOID, PLUNGER (FE)				
⚠	1-454-294-11	SOLENOID, PLUNGER (FF)				
⚠	1-454-295-00	SOLENOID, PLUNGER (PINCH)				
	1-463-264-00	TUNER (BT-852)				
⚠	1-551-964-00	CORD, POWER				
⚠	1-556-208-11	CORD, POWER (Type3)				
L002	1-543-145-00	HEAD, SENSING				
S7401	1-552-664-00	SWITCH, MICRO				

ACCESSORIES AND PACKING MATERIALS

Part No	Description	Remark
A-6701-171-A	COMMANDER ASSY, REMOTE	
1-417-063-00	TRANSFORMER, ANTENNA (EAC-24)	
1-513-379-00	CONVERTER (EAC-25)	
1-551-139-00	CORD, CONNECTION	
1-551-644-41	CORD, CONNECTION	
2-057-975-00	BAG, POLYETHYLENE	
3-660-986-00	SHEET, PROTECTION	
3-662-364-00	BAG, PROTECTION	
3-670-804-00	CUSHION (REAR LOWER)	
3-670-805-00	CUSHION (FRONT LOWER)	
3-670-806-00	CUSHION (RIGHT UPPER)	
3-670-807-00	CUSHION (LEFT UPPER)	
3-670-812-00	CASE (H), ACCESSORY	
3-671-205-00	CARD (USA), LETTER, ACCESSORY	
3-671-273-00	LID, CASE, ACCESSORY [Type1 (USA), Type2]	
3-671-278-00	LID, CASE, ACCESSORY [Type1 (CND)]	
3-671-279-00	INDIVIDUAL CARTON [Type1 (USA/CND)]	
3-672-403-00	INDIVIDUAL CARTON (Type1)	
3-672-408-00	INDIVIDUAL CARTON (Type3)	
3-672-410-00	INDIVIDUAL CARTON (Type2)	
3-672-411-00	LID, ACCESSORY CASE (Type1, Type3)	
3-701-630-00	BAG, POLYETHYLENE	
3-783-745-21	MANUAL, INSTRUCTION (CONTROL)	
3-783-745-31	MANUAL, INSTRUCTION (CONTROL) [Type1 (CND)]	
3-783-745-51	MANUAL, INSTRUCTION (CONTROL) (Type1, Type3)	
3-795-288-22	GUIDE, SETTING	
3-795-288-31	GUIDE, SETTING [Type1 (CND)]	
3-795-288-51	GUIDE, SETTING (Type1, Type3)	
4-491-336-21	REGICTRATION	
8-895-125-01	TAPE, VIDEO (L-165) (USA-N)	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par le hachuré et la marque ⚠ sont essentiels pour la sécurité. Ne remplacer que par le numéro de pièce spécifiée.

When indicating parts by reference number, please include the board name.

SL-5000
RM-59W

SERVICE MANUAL

US Model
Canadian Model

CORRECTION

Correct the service manual as shown below.

No. 1
October, 1981

☛ : corrected portion

1. SECTION 1 GENERAL

Page 1-1. GENERAL

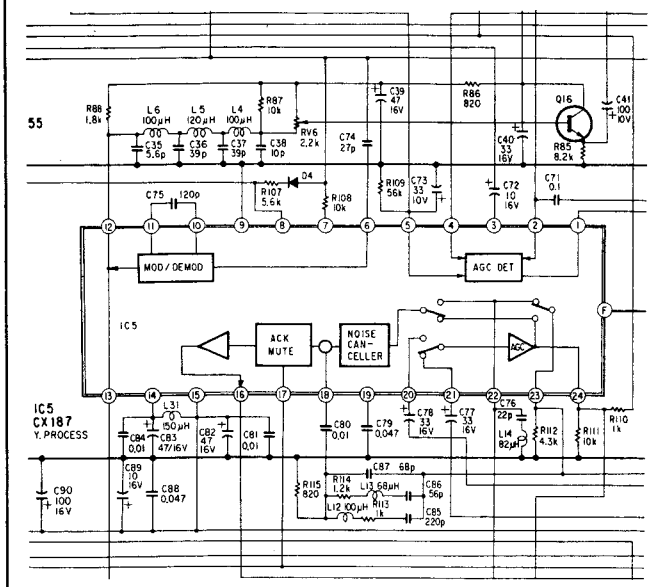
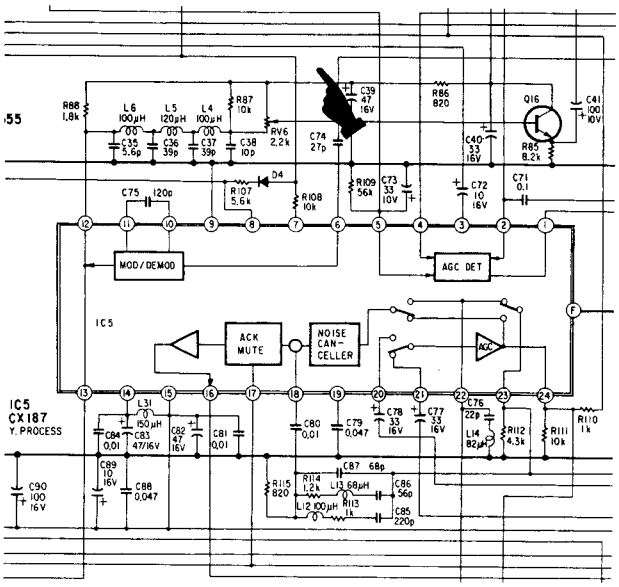
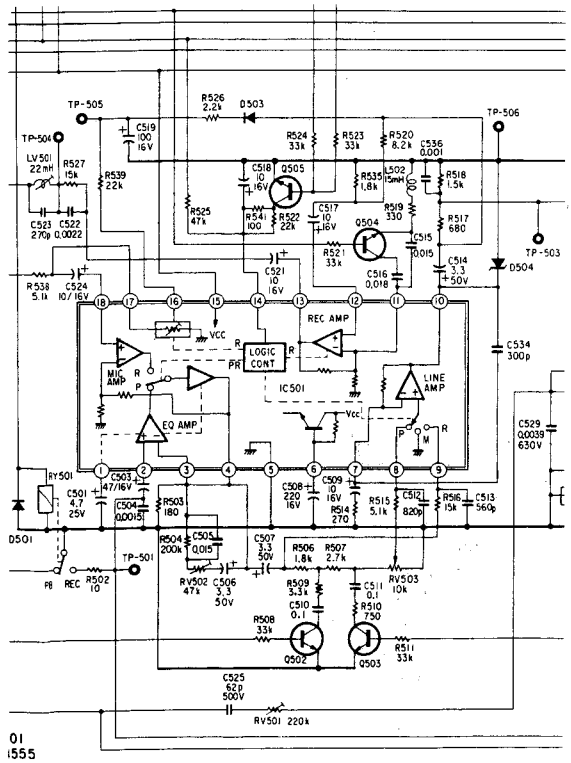
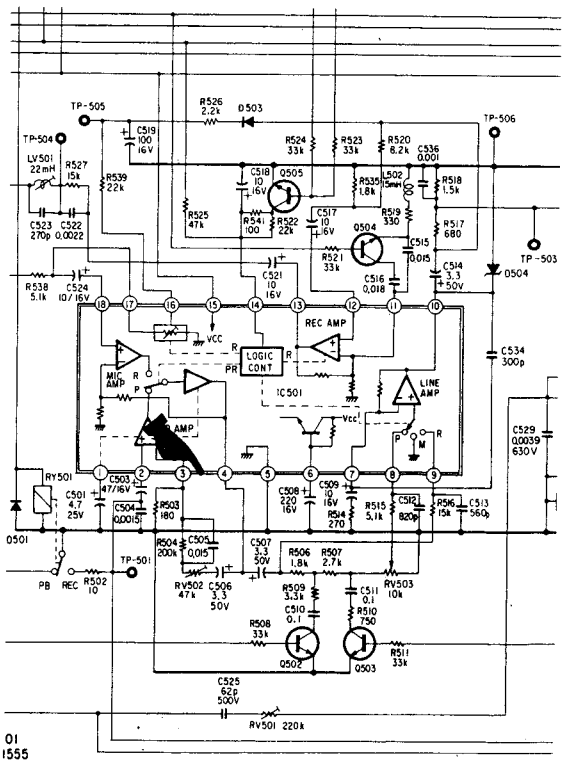
Incorrect	Correct
• Operate on 120 volt, 60 Hz AC. DO NOT ATTEMPT TO OPERATE YOUR VCR ON HIGHER VOLTAGES, 50 CYCLES OR DC. The power cord has a polarized plug with one regular blade and one wide blade. It will fit into the standard electrical outlet ONLY ONE WAY. If the blades will not enter your outlet, try reversing the plug. If it will not enter either way, your outlet is non-standard. A new outlet should be installed by a qualified electrician. DO NOT DEFEAT THE SAFETY PURPOSE OF THE POLARIZED PLUG. • Keep the recorder and video cassette away from strong magnetic fields. • After playing a video cassette, remove it from the recorder. DO NOT move the recorder with a cassette in the compartment. • If a cassette has been subjected to cold temperature, allow it to warm to room temperature before recording or playback. • To disconnect the cord, pull out by the plug. Never pull on the cord. • Operate the recorder only on a level, horizontal surface. DO NOT install the recorder on an inclined surface. • On the top and bottom of this VCR are slots which permit air flow. DO NOT ENCLOSE THE CABINET OR OTHERWISE OBSTRUCT VENTILATION AT THE TOP OR BOTTOM. • DO NOT install the recorder in a location near heat sources, or in a place subject to direct sunlight, dust, mechanical vibration, shock, or dampness. Moisture may cause damage to tape and recorder heads. • When you are going away on vacation, or don't plan to use the recorder and TV, unplug them from the wall outlet to protect against possible damage from lightning or power system surges. If connected to an outdoor antenna, disconnect the lead-in from the back of the unit. • Should any liquid spill into, or solid object fall onto the cabinet, unplug the recorder and have it checked by a distributor-approved Zenith Service Center before attempting to operate it. • To clean the cabinet panels and controls, use a dry or slightly damp soft cloth. If a damp cloth is used, moisten it with a MILD detergent. DO NOT use solvents, such as alcohol or benzine which may damage the finish. • Save the shipping carton and packing material. They will come in handy if you ever have to ship your recorder. For maximum protection, re-pack the recorder as it was originally shipped from the factory.	• Operate on 120 volt, 60 Hz AC. DO NOT ATTEMPT TO OPERATE YOUR VCR ON HIGHER VOLTAGES, 50 CYCLES OR DC. The power cord has a polarized plug with one regular blade and one wide blade. It will fit into the standard electrical outlet ONLY ONE WAY. If the blades will not enter your outlet, try reversing the plug. If it will not enter either way, your outlet is non-standard. A new outlet should be installed by a qualified electrician. DO NOT DEFEAT THE SAFETY PURPOSE OF THE POLARIZED PLUG. • Keep the recorder and video cassette away from strong magnetic fields. • After playing a video cassette, remove it from the recorder. DO NOT move the recorder with a cassette in the compartment. • If a cassette has been subjected to cold temperature, allow it to warm to room temperature before recording or playback. • To disconnect the cord, pull out by the plug. Never pull on the cord. • Operate the recorder only on a level, horizontal surface. DO NOT install the recorder on an inclined surface. • On the top and bottom of this VCR are slots which permit air flow. DO NOT ENCLOSE THE CABINET OR OTHERWISE OBSTRUCT VENTILATION AT THE TOP OR BOTTOM. • DO NOT install the recorder in a location near heat sources, or in a place subject to direct sunlight, dust, mechanical vibration, shock, or dampness. Moisture may cause damage to tape and recorder heads. • When you are going away on vacation, or don't plan to use the recorder and TV, unplug them from the wall outlet to protect against possible damage from lightning or power system surges. If connected to an outdoor antenna, disconnect the lead-in from the back of the unit. • Should any liquid spill into, or solid object fall onto the cabinet, unplug the recorder and have it checked by a distributor-approved SONY Service Center before attempring to operate it. • To clean the cabinet panels and controls, use a dry or slightly damp soft cloth. If a damp cloth is used, moisten it with a MILD detergent. DO NOT use solvents, such as alcohol or benzine which may damage the finish. • Save the shipping carton and packing material. They will come in handy if you ever have to ship your recorder. For maximum protection, re-pack the recorder as it was originally shipped from the factory.

Beta
VIDEO CASSETTE RECORDER
SONY®

Consumer VIDEO

2. SECTION 3 PRINTED WIRING BOARD AND SCHEMATIC DIAGRAM

Page 3-9, 3-10 VA-1 BOARD

Incorrect	Correct
	
	

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